

I TO USATHAMA U.S. Army Toxic and Hazardous Materials Agency

FINAL REPORT

GAITHERSBURG NIKE CONTROL AND LAUNCH ARBA PRELIMINARY ASSESSMENT/SITE INSPECTION GAITHERSBURG, MARYLAND

Prepared for

U.S. Army Toxic and Hazardous Materials Agency Aberdeen Proving Ground Aberdeen, Maryland 21010-5401

Prepared by

EA Mid-Atlantic Regional Operations RA Engineering, Science, and Technology, Inc.

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Prepared by

EA Mid-Atlantic Regional Operations
EA Engineering, Science, and Technology, Inc.
15 Loveton Circle
Sparks, Maryland 21152

Steven A. Brown, Project Manager

30 JANUANY 1990 Date

Kenneth W. Kilmer,

Director of Engineering

Date

January 1990

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EXECUTIVE SUMMARY

EA Engineering, Science, and Technology, Inc. (EA) conducted a Preliminary Assessment/Site Inspection (PA/SI) at the former Gaithersburg NIKE Control and Launch areas located in Gaithersburg, Maryland for the U.S. Army Toxic and Hazardous Materials Agency (USATHAMA) under Contract No. DAAA15-88-0005. The objective of this PA/SI was to evaluate the site environmental conditions relative to the past Army operations. An update of the Initial Installation Assessment (IIA) was conducted in 1987 at the study areas and consisted of a records search. The purpose of the update report was to review the 1980 report in terms of changes in environmental regulations or mission relative to the findings of the previous report. Based on the information reviewed during these assessments and other USATHAMA NIKE reports, the waste solvents, petroleum, oil and lubricants used during normal Army operations were disposed of in rock-lined gravel pits and in the septic system. These waste disposal practices have led to ground-water and soil contamination at other former NIKE sites. This potential for contamination and the excessing actions that have been proposed for the former Gaithersburg Launch and Control sites have led to the undertaking of this PA/SI project.

The NIKE Control and Launch areas are located approximately 1.5 mi apart and a separate, though similar, work scope was developed for each site. The respective sampling plans were designed to address the potential ground-water, surface water and soil contamination associated with past Army operations. Four ground-water monitoring wells were installed at both sites from which ground-water samples were collected and analyzed. Eight soil samples were collected for analysis, five at the Launch and three at the Control site. A surface water and surface sediment sample were collected from a stream located close to the Launch area. Also included in the scope-of-work at the Launch site was an inspection of the three missile storage structures to evaluate the potential for environmental problems.

Site features of additional environmental concern not fully addressed in this PA/SI included five underground storage tanks; four at the Control Area and one at the Launch Area, an asbestos survey of the buildings, a lead paint survey, a dry well at the Control area and PCB transformers. These concerns are to be addressed in a subsequent investigation to this PA/SI, conducted by USATHAMA.

The samples collected during this PA/SI study were analyzed for the complete Priority Pollutant Parameter List, which includes volatile and semi-volatile organics, total cyanide and phenols, pesticides, PCBs, and dissolved metals. The assessment of the data obtained from these samples involved comparing the data to the established regulatory criteria to characterize the potential for contamination that may be attributed to past Army operations. The evaluation of this data indicates that no compounds were detected above any current Maximum Contaminant Levels (MCL). Low levels of a phthalate compound were detected in six samples, however, there are no regulatory criteria for these compounds. These compounds are common components of plastics and their detection is probably due to laboratory contamination. Cadmium was detected in nine of ten water samples including the field blank at levels between the current MCL of 10 µg/L and the proposed MCL and MCLG (Maximum Contaminant Level Goal) of 5 µg/L. The source of this metal is indeterminate and the detection of cadmium in the field blank brings into question the validity of the data. Lead was detected in the ground-water sample from GNL-3 at 35 µg/L. This level is lower than the current MCL of 50 µg/L but higher than the proposed MCL of 5 µg/L and proposed MCLG of 0 µg/L. If the current MCL is lowered in the future to the proposed MCL, the lead level detected in GNL-3 during this study would be an excessive value. Heptachlor, a pesticide compound, was detected at low levels in five field samples at the Launch site, plus the field and method blank. The detection of this compound can be attributed to laboratory contamination based on the detection of the compound in the method blank. The soil sample analytical data exhibited values within the expected background ranges for soils typical of the site.

The future use of these sites and in particular the potential for ground-water use should be considered when decisions are made concerning the need for actional ground-water monitoring. Both of these sites are in close proximity to a municipal water system and it is likely that this system would supply water to the sites instead of relying on ground-water. If, however, the future site development plans include ground-water use, an additional comprehensive ground-water sampling event is recommended to provide a greater level of assurance beyond a single sampling round. Additional sampling, if performed, should attempt to confirm or deny the cadmium levels in the water samples and provide additional data on the lead level in the ground-water sample from GNL-3.

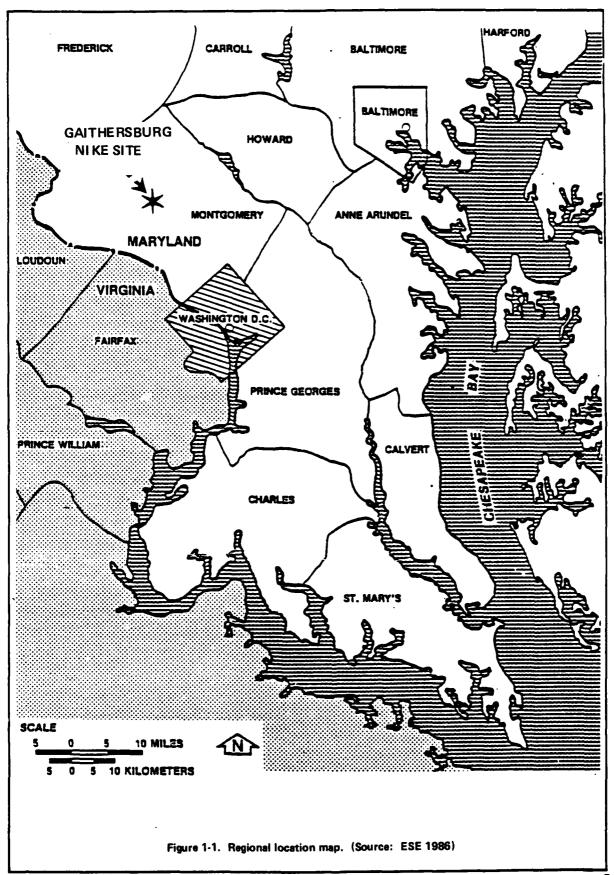
1. INTRODUCTION

The former Gaithersburg NIKE Launch and Control area is located northeast of Gaithersburg, Maryland, in Montgomery County, approximately 30 mi north of Washington, D.C. as shown on Figure 1-1. The combined area of the facility, less easements, is approximately 30 acres. The facility consists of two separate sites, the NIKE Control and Launch areas located approximately 1.5 miles apart. Detailed Launch and Control area site maps are provided as Figures 1-2 and 1-3, respectively. These figures are on plan sheets and are located in separate back pockets.

The Control Area is surrounded by single-family residences and is not being used in any capacity at the present time. The Control area was identified for closure in the Base Realignments and Closures Report completed by the Defense Secretary's Commission in December 1988. In this report the Control area was referred to as the Army Reserve Center, Gaithersburg, Maryland. The surrounding land use at the Launch Area presently consists of a mixture of single-family residences and farm land. An active U.S. Army Reserve Headquarters office has been constructed on the front portion of the Launch Site.

Three missile launching pads and separate fueling, generator, assembly, storage, and wastewater disposal areas can be identified at the former Launch Area. The missile launching pads consist of three concrete structures, approximately 17 ft deep, used to store the missiles. In addition to these features, a 1,000-gal fuel oil underground storage tank (UST) was not removed from the Launch area during the course of this investigation. Surface runoff is directed towards a small surface stream located along the southern site boundary.

The former mess hall, barracks, administration, engine generator and frequency changer buildings are located at the Control area, along with the wastewater treatment and disposal areas. Three fuel oil (two 1,500 and one 2,000 gallon) and one 6,000 gallon gasoline UST were located at the Control area and were removed during this investigation.





The former Gaithersburg NIKE Launch and Control area was owned and operated by the Department of the Army (DA) from 1956 to 1962. During this time the Army constructed the NIKE-Ajax Missile Control and Launch Areas at this site. The site was named the Gaithersburg Support Facility--NIKE Ajax Site W-94. In 1962, the DA transferred this facility to the Department of the Navy (DN), which used the facility for communications research. In 1968 the Harry Diamond Laboratories (HDL) began using the former Launch facility for radar research. In March 1972, the property was transferred to HDL and named Gaithersburg Research Facility (GRF). HDL activities involved constructing, maintaining, and testing of electronic and mechanical systems to track aircraft. HDL utilized this site until 1979, after which it was transferred to Fort George G. Meade (FGGM).

The purpose of the Preliminary Assessment/Site Inspection (PA/SI) was to design and conduct a field sampling plan that included ground-water, surface water, surface sediment, and soil sample collection and chemical analysis to address the potential for environmental contamination associated with past Army operations. The assessment of this data focused on whether there was a need for further environmental work.

Section 2 of this report provides an overview of the NIKE Missile System including a description of site features, operations, and types of waste generated. Section 3 includes information on the geology and topography from a regional and local perspective. Section 4 describes the various field methods and procedures utilized during the field investigation. Section 5 includes the assessment of environmental conditions at the Launch and Control areas. Each site has been characterized relative to specific site features and the analytical data and results of field activities and are provided in this section. Section 5 is followed by conclusions and recommendations that were developed based on the findings from this PA/SI study.

2. NIKE MISSILE SYSTEM OVERVIEW

2.1 GENERAL

Between 1954 and the early 1970s, NIKE Ajax and NIKE Hercules missile batteries were constructed throughout the continental United States. Maintenance of the batteries by the U.S. Army required the storage, handling, and disposal of missile components and propellants as well as solvents, fluids, fuels, and other materials necessary for support activities. General operation procedures used at the NIKE sites were relatively consistent from site to site although specifics of material handling and disposal varied from individual batteries. (McMasters et al., 1983)

2.2 DESCRIPTION OF MISSILES, BATTERIES, AND EQUIPMENT

NIKE Ajax missiles were first deployed in 1954 and remained in use until 1964. The NIKE Ajax was a two-stage supersonic missile armed with three high-explosive warheads. The missile utilized a solid-fueled booster and a liquid-fueled sustainer motor to deliver the high explosive warheads to a radar-determined point. The first stage was powered by the XM-5 booster, which burned a cast, double-based solid propellant. The second stage burned JP-4 jet fuel with inhibited red fuming nitric acid (IRFNA) as an oxidizer. The starter fluid originally consisted of aniline/furfuryl alcohol, later replaced by unsymmetrical dimethyl hydrazine (UDMH).

The NIKE Hercules missile, introduced in 1958, gradually replaced the Ajax and remained in use until the mid-1970s. The NIKE Hercules was a two-stage missile which differed from the Ajax in that the sustainer motor was solid fueled and the warhead was primarily nuclear. The first stage of the missile was powered by a solid-propellant XM-5 cluster. The second stage sustainer motor initially burned a mixture of 40 percent UDMH and 60 percent JP-4, which was replaced by motors fueled by JP-4 with IRFNA as an oxidizer. However, continual malfunction of the motors

led to replacement by a solid-propellant sustainer motor of the XM-30 series. This model was fueled by an ammonium perchlorate-type propellant.

Typical NIKE batteries consisted of two main operating areas: the Control Area and the Launch Area. Equipment limitation necessitated that the two areas could not be closer to each other than 900 meters and could be no farther than 3.5 kilometers apart. The Control Area contained all radar, guidance, electronic, and communication equipment for missile guidance and fire control. In addition, an electric generator building and motor pool may have been located on the site. The Launch Area contained the facilities and equipment required to assemble, test, and maintain the missiles and associated launchers. Maintenance facilities generally included the motor pool and generator buildings in addition to the defuel/refuel facilities. The generator building and motor pool were normally equipped with a 1-2 m3 gravel pit sump where oil, solvents, and paints were routinely dumped and allowed to soak into the ground. Some Launch batteries had an additional rock-filled pit in the defuel/refuel area which was used for IRFNA disposal. Fuel storage tanks were common at both the Control and Launch Areas. Most bulk storage was in USTY, although above-ground tanks were also used.

2.3 GENERAL WASTE SOURCES

Past NIKE operations utilized and generated a significant quantity of hazardous material and waste. Consequently, the potential for pollution of surface water, ground water, soil, and sediment is a matter of concern. Table 2-1 is a summary of potential environmental releases at a NIKE missile battery. Past operations included fueling and defueling, support equipment maintenance and repair, and material handling and storage. There were several categories of hazardous waste associated with past NIKE operations, including liquid missile fuel (JP-4); starter

| Contaminant | Quantity Used (L/year) | Area of Use (a) | Routine Disposal Methods Primary Secon | Disposal ods Secondary | Incidental Releases | Dates |
|--|------------------------|-----------------------|--|------------------------|------------------------|-----------|
| Carbon tetrachloride | 1,000-2,000 | LA, Motor Pool | Sump | Surface Dump | ł | 1954-1962 |
| Trichlorethylene | 360-1,400 | LA, Motor Pool | Sump | Surface Dump | 1 | 1956-1970 |
| Trichlorethylene | 1,000-2,000 | LA, Motor Pool | Sump | Surface Dump | 1 | 1958-1964 |
| IRFNA ^(b) | 500-1,500 | Fuel/Defuel | Sump | Turn-in | Line Rupture | 1954-1964 |
| Aniline-furfuryl ^(b) alcohol | 20-30 | Fuel/Defuel | Turn-in | Dump/Burial | Line Rupture | 1954-1958 |
| UDMH(b) | 20-30 | Puel/Defuel | Turn-in | Dump/Burial | Line Rupture | 1956-1964 |
| Battery Electrolyte | 100~300 | LA, Motor Pool | Sump | Sewer | Į | 1954-1978 |
| JP-4(b) | 2,000-3,000 | Fuel/Defuel | Turn-in | Í | Leakage | 1954-1978 |
| Diesel/Gasoline | 50,000-100,000 | Motor Pool, Generator | Consu | Consumptive Use | Leakage | 1954-1978 |
| Stoddard Type II | 2,000-4,000 | LA, Motor Pool | Sump | Turn-in | ſ | 1965-1978 |
| No. 2 Puel Oil | 20,000-50,000 | LA, Bousing | Consum | Consumptive Use | Leakage | 1954-1978 |
| Motor 0il | 700-600 | Motor Pool | Turn-in Sump | Sump | ſ | 1954-1978 |
| Hydraulic Fluid | 1,900-3,780 | LA, Motor Pool | Sump | 1 | Line Rupture | 1954-1978 |

(a) LA = Launch area.(b) Ajax only.

Source: McMaster et al. 1983.

fluids (UDMH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The most common liquids disposed of onsite were solvents used in maintenance operations. These were routinely dumped into sumps where they soaked into the ground. Fuel components were sometimes disposed of in this manner, but to a more limited extent.

2.4 WASTE CATEGORIES

2.4.1 Chlorinated Solvents

A variety of chlorinated organic solvents were used at former NIKE installations. Solvents were utilized for support vehicle, generator, missile, and launcher maintenance and cleaning. Initially, carbon tetrachloride was widely used as a multipurpose solvent, gradually being replaced by trichloroethylene and trichloroethane. These compounds are nonreactive in the environment and can be persistent once introduced into ground water, especially where ground-water movement is slow.

2.4.2 Hydrocarbons

A wide variety of hydrocarbon products were used or stored on NIKE sites. Common types included JP-4, gasoline, diesel fuel, fuel oil, motor oil, and hydraulic fluid. A large portion of the petroleum products were used for missile and support equipment operation. Most of the hydraulic fluid used was contained in the missile launchers.

2.4.3 Inhibited Red Fuming Nitric Acid (IRFNA)

The sustainer propellant for the NIKE Ajax missile consisted of JP-4 and IRFNA. IRFNA consists of nitrogen dioxide dissolved in nitric acid.

Aniline-furfuryl alcohol, later replaced by UDMH, was used as a starter fluid for Ajax missiles.

2.4.4 Other Wastes

In addition to the previous three categories, there are other hazardous materials and wastes that are not associated with any of the other categories. These include battery electrolyte (containing lead), and possibly PCB transformer fluid.

2.4.5 Use and Disposal Practices

The contaminants reported were generated primarily by maintenance activities. In general, the missile fuels and oxidizers were carefully controlled; however, some batteries reportedly disposed of IRFNA routinely onsite.

Most NIKE sites were equipped with sumps for disposing liquid waste. The liquid disposed of in these sumps was allowed to soak into the ground. The wastes used and generated at the former Gaithersburg NIKE Control and Launch sites were reportedly disposed of in the septic system or leach pits present at each site. The extent of disposal operations at most NIKE sites is unknown.

3. GEOLOGY/TOPOGRAPHY

3.1 REGIONAL

The project area lies within the Eastern Division of the Piedmont Physiographic Province. The Piedmont in the project area is underlain by closely folded rocks of sedimentary origin which have been metamorphosed and intruded by granite and mafic rocks. The complex generally trends northeast - southwest, approximately parallel to the Fall Line which marks the boundary between the crystalline rocks of the Piedmont Province and the sedimentary rocks of the Costal Plain Province. Figure 3-1 shows the physiographic provinces of Maryland and the location of the Fall Line. Figure 3-2 shows the geology of the Gaithersburg NIKE Launch and Control area which is underlain by the upper pelitic schist facies of the Wissahickon Group. This facies is described as a low-grade metamorphic rock containing albite, chlorite, muscovite, quartz, and accessory minerals. The Wissahickon strata have been severly deformed and contorted (Geologic Map of Maryland 1968). Soil types developed on this rock are well drained, strongly sloping, and micaceous with a silt loam texture (Soil Conservation Service 1961).

The landscape developed on these rock and soil units is characterized by undulating topography deeply dissected by streams. Figure 3-3 shows the locations and topography of the Launch and Control sites. The Control Area is located within the Whetstone Run Basin. The Launch Area is located within the Cabin Branch drainage basin. Both of these streams flow west into Great Seneca Creek. The surface elevations of the former NIKE Control and Launch Areas are both about 510 ft above mean sea level.

3.2 SITE GEOLOGY

Data from the monitoring well borings at the site (Appendix A) reveals that both the Control and Launch Areas are underlain by a relatively

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Figure 3-1. Physiographic provinces and their divisions in Maryland (Source: Vokes and Edwards, 1974).



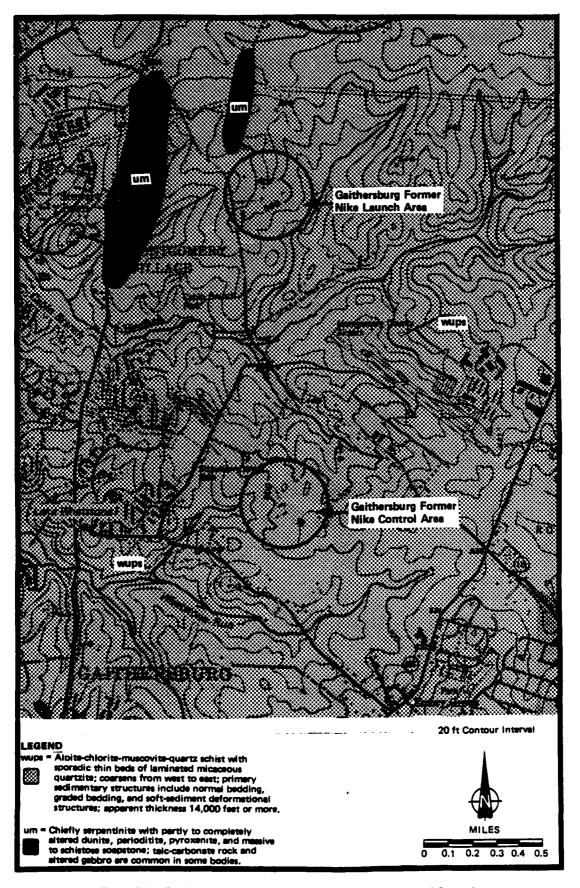


Figure 3-2. Geology of the former Gaithersburg Nike Launch and Control areas.
(Source: Modified from MD Geologic Map 1968)

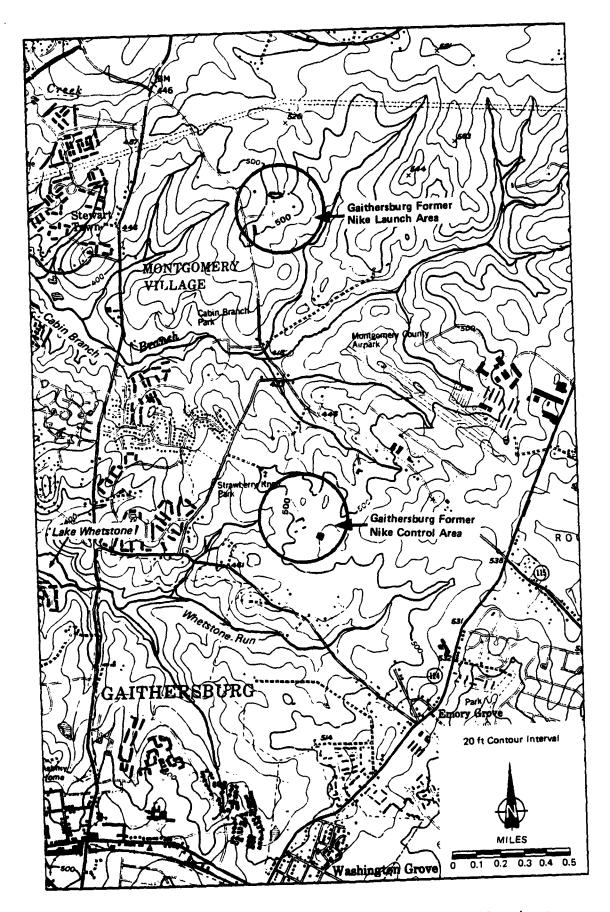


Figure 3-3. Locations and topography of Gaithersburg former Nike Launch and Control areas. (Source: Gaithersburg Topographic Quadrangle, 1979, U.S.G.S.)

thick sequence of decomposed (weathered) bedrock (saprolite). The saprolite consists of clayey silt and fine sand. Relic schistose texture was present in most samples. Bedrock was encountered in only one well (GNC-7) at an elevation of 484.66 ft above MSL and consisted of a greenish gray, quartz mica schist. Overlying bedrock at this location is 12-ft of saprolite.

3.3 HYDROLOGY

The relatively impermeable rock of the Wissahickon Group yields little or no interstitial water to wells. However, significant supplies are found in the faults, joints, and fractures within the rock and in the mantle of saprolite overlying bedrock. The bedrock aquifer is an important water source in Montgomery County. The average well yield of the upper pelitic schist facies of the Wissahickon Group is 11 gpm. An aquifer test near the project area indicated that the transmissivity of the bedrock aquifer is about 3,000 gal/day/ft² (Ground-Water Occurrence in the Maryland Piedmont 1969; Water Resources of Howard and Montgomery Counties 1954). Monitoring wells at both the Control and Launch Areas were screened in the saprolite (clayey silt and sand), except for GNC-7 which is partially screened (~ 8-ft) in competent bedrock.

4. FIELD INVESTIGATION

4.1 MONITORING WELL INSTALLATION

A total of eight monitoring wells were installed at the former Gaithersburg NIKE Control and Launch sites. At each site four monitoring wells, one upgradient well and three wells positioned downgradient of potential sources of onsite contamination were installed. Well installation was performed by Hardin-Huber Associates under subcontract to EA. Well installation, development, and sampling were performed in accordance with the Geotechnical Requirements for Drilling, Monitoring Wells, Data Acquisition, and Report, U.S. Army Toxic and Hazardous Materials Agency (revised March 1987). Wells were used for ground-water sampling and to evaluate water-table gradient, general ground-water flow directions, and in situ permeabilities.

4.2 BORINGS

The soil borings for monitoring wells were advanced through overburden using a Mobile B-61 drill rig equipped with hollow-stem augers (8-in. 0.D., 3-3/8-in. I.D.). When competent bedrock was encountered (auger refusal), the hole was reamed with 12-in. 0.D., 8-in. I.D. hollow stem augers. The large augers were left in the hole to serve as temporary casing and a 7-7/8-in. roller bit was inserted inside the augers in order to drill to the necessary depth for monitoring well installation. The drill rig, drill tools, and associated equipment were steam cleaned prior to drilling at each monitoring well location. No grease or oil was applied to drill rods, augers, or tools used in the boreholes.

Soil samples were collected at the surface and at 5-ft intervals thereafter utilizing a 24-in. long, 2-in. 0.D., 1-3/8 I.D. split~spoon sampler. The sampler was driven 18 in. with a 140-lb. drop hammer, free falling 30 in., in accordance with ASTM-D 1586-84 specifications. The

subcontractor provided EA's supervising geologist with the number of blows required to drive the sampler each 6 in. of penetration. All split-spoon samples were screened in the field using a photo-ionization detector (PID), classified in accordance with Unified Soil Classification System (USCS) specifications and Munsell Color Chart, and logged (Appendix A). The samples were placed in glass jars and appropriately labeled and will be retained by EA until final report acceptance.

4.3 WELL CONSTRUCTION

Upon completion of the borehole, a monitoring well was installed using the following material and methods.

- . Monitoring well borings were 7-7/8-in. in diameter to permit approximately 2 in. of annular space between boring and centered well casing and screen.
- . All monitoring well riser casing and screen consisted of 4-in. I.D., Schedule 40 polyvinylchloride (PVC), flush joint, threaded pipe.
- . The screened interval consisted of 10 to 15-ft factory slotted (0.01-in.) well screen sealed at the bottom with a PVC cap or plug.
- . All screen-to-riser and riser-to-riser sections were joined by flush-joint, threaded coupling. No solvents or glues were used.
- . The well screen and riser casing were installed and a No. 2 quartz sand filter pack was placed around the screen and casing from the base to a minimum of 5 ft above the top of the screen.

- . A minimum 5-ft thick impervious seal of bentonite pellets was placed directly on top of the sand pack. The seal was measured immediately after placement, without allowance for swelling.
- . Following bentonite seal emplacement, the well annulus was continuously pressure-grouted via themie pipe from the top of the bentonite seal to the ground surface with a 20:1 cement-bentonite grout with a maximum 7 gal of approved water per 94-lb bag of cement.
- 6-in. steel outer casing was placed around the PVC well stickup and secured in grout. The steel casing, rising 24-36 in. above ground level, was provided with lock and cap.
- . A 3 ft², 6-in.-thick concrete pad was constructed around the well casing at final ground-level elevation. Three 5-ft-long, 3-in. 0.D. steel protective posts filled with concrete were placed 2.5 ft above ground, equally spaced around the well and embedded in the concrete pad.

4.4 WELL DEVELOPMENT

After well installation, but no sooner than 48 hours after grouting was completed, development was accomplished by air lift/surge, pumping and bailing. During development, pH, temperature, and specific conductance were monitored and recorded. Development continued until a minimum of five well volumes were removed, the water was clear to the unaided eye, and three consecutive pH, temperature, and specific conductivity measurements did not vary by more than 10 percent.

4.5 AQUIFER TEST

In <u>situ</u> hydraulic conductivities were calculated for selected wells at the Launch and Control areas utilizing the slug test method developed by Bouwer and Rice (1978). This procedure is applicable to fully and partially penetrating wells within an unconfined aquifer. The test method involved the removal of a known volume (slug) of ground water and the measurement of elapsed time during the recovery phase. Water level measurements and elapsed time intervals were recorded utilizing an In-situ, Inc. Hermit Model SE-1000B remote data logger and pressure transduce. The data logger recorded depth to water measurements during the recovery phase at logarithmic time intervals immediately after slug removal. Water levels were recorded until at least 90 percent recovery to the static water level was achieved. A computer program based on Bouwer's slug test methodology was used. Elapsed time versus residual water level was computer graphed and used to calculate hydraulic conductivity (K) according to the following equation:

$$K = \frac{R_c^2 - \ln (R_e/R_w)}{2 - L_e} \frac{1}{t} \ln \frac{y_o}{y_t}$$

where

- R = effective radial distance over which the head difference y is dissipated
- L
 e = height of perforated, screened, uncased, or otherwise open
 section of well through which ground water enters

y = y at time zero

y = y at time t

t = time since y

 $\frac{R}{c}$ = radial distance of well casing

4.6 GROUND-WATER SAMPLING

Prior to sampling, a physical inspection of each well and surrounding area was performed. This included, but was not limited to, an inspection for evidence of tampering, physical damage, and breakage or heaving of the concrete pad. Such information was recorded on well purging and sampling forms. After the inspection, static water levels were determined from all wells prior to initiation of any purging and sampling activities. The water level determinations were made to the nearest 0.01 ft relative to the top of the PVC well casing utilizing an electric water-level sounder. Between each well, the probe and cable were cleaned by wiping with a paper towel saturated with DI water as the probe was retrieved. Water level data were used to prepare water-level contour maps and to calculate the static volume of water in the casing.

Prior to sample collection, the wells were purged in order to ensure that the sample collected was representative of the ground water. Purging was accomplished with the use of a stainless steel submersible pump or polyvinylchloride (PVC) bailer. Purging continued until five well volumes of water were removed or the well was purged dry. In the event that the well purged dry, the well was allowed to recover and was purged dry a second time before sampling. Purged water was discharged from the well in a downgradient direction to minimize the potential for surface infiltration. Only sample gear that had been properly cleaned in accordance

with USATHAMA Reference QA Plan was used. Between wells, the pump and associated plumbing were pressure jetted with clean water. The pump and hose interior was cleaned by pumping water through the entire system. Ground-water sampling was accomplished with a dedicated, laboratorycleaned, bottom-filling Teflon bailer. A clean, dedicated piece of polypropylene or nylon line was used to lower each bailer into the well. Samples for volatile organic compounds were collected in a manner that minimized aeration and were stored in containers free of bubbles and headspace. Samples collected for metals analysis were filtered using a $0.45-\mu$ membrane filter. During sampling, an aliquot of ground water was monitored to determine pH, temperature, and specific conductance utilizing calibrated and standardized instruments. Field sampling records are presented in Appendix B. After collection, all samples were placed securely on ice in a cooler for transport to the laboratory. To ensure sample integrity, all ground-water sampling was accomplished under the protocol for chain-of-custody and sample handling established in the QA/QC Plan.

4.7 SURFICIAL SOIL SAMPLING

Soil samples were collected 1-3 ft below the surface at selected sampling locations. Samples were obtained by advancing a 4-in. stainless steel hand auger to the top of the sample interval. Next, a stainless steel trowel was used to collect the sample. Between each sample, all sampling equipment was cleaned as follows: (1) wash with detergent; (2) rinse with deionized (DI) water; (3) rinse with DI water. Upon collection, samples were placed in the specified containers, labeled, and placed on ice.

5. ENVIRONMENTAL CONTAMINATION INVESTIGATIONS

This section provides information on the field sampling plan, site characterization, and data assessment relative to the separate Launch and Control area environmental investigations. A field sampling plan was designed for each site that included installation of monitoring wells for ground-water and soil sample collection and analysis to address the potential for environmental problems associated with past Army operations. All samples were analyzed for the complete Priority Pollutant parameter list including: volatile organic compounds (VOC), semivolatile organic compounds (SVOC), total cyanide and phenols, dissolved metals, pesticides, and polychlorinated biphenyls (PCB). Table 5-1 provides the certified reporting limit (CRL) for certified compounds and detection limit for non-certified compounds for the Priority Pollutant list compounds. Table 5-2 exhibits the ground water quality regulatory criteria which were used to evaluate the data obtained during this study.

5.1 FORMER NIKE LAUNCH AREA SITE

5.1.1 Field Sampling Plan

The NIKE Launch Area sampling plan included the installation of four monitoring wells from which ground-water samples were collected and analyzed. Four soil samples and one surface water and sediment sample were also collected for analysis. An inspection of the missile storage structures was performed to evaluate the environmental conditions and potential problems. Locations of the monitoring wells are shown on Figure 1-2. Well GNL-1 was located upgradient of the acid storage and refueling platform and serves as the upgradient well for the entire site. The three remaining wells were installed downgradient of potential sources of contamination. Monitoring wells GNL-2, GNL-3, and GNL-4 are located downgradient of the electric shop, missile storage structures, and wastewater disposal area, respectively. Well completion diagrams and soil boring logs are provided in Appendix A.

TABLE 5-1 CERTIFIED REPORTING LIMITS (CRL) FOR CERTIFIED COMPOUNDS AND DETECTION LIMITS FOR NON-CERTIFIED COMPOUNDS FOR PRIORITY POLLUTANT PARAMETER LIST.

| Analytical | WATER CR: | | SOIL (| |
|----------------------|--------------|--------|---------|--------|
| Method | ICP | GFAA | ICP | GFAA |
| INORGANICS | | | | |
| Group A - Metals | | | | |
| Antimony | 2.1700 | | | 0.3730 |
| Arsenic | 2.9200 | | | 2.2200 |
| Beryllium | 2.9200 | | 0.3310 | |
| Cadmium | 4.0900 | | 0.9510 | |
| Chromium | 4.4400 | | 9.3100 | |
| Copper | 6.2000 | | 6.2900 | |
| Lead | | 2.1600 | 92.3000 | |
| Nickel | 16.2000 | | 1.8200 | |
| Selenium | | 6.5200 | | 1.9500 |
| Silver | 5.5600 | | 0.6990 | |
| Thallium | 90.4000 | | | 2.3200 |
| Zinc | 5.3500 | | 8.3800 | |
| CVAA | | | | |
| Mercury | .1000 | 0.0179 | | |
| Group A - Non-Metals | | | | |
| Cyanide | 5.0000 | | 19.8000 | |
| Phenols | 39.3000 | | 3.6200 | |
| | 37.3000 | | 3.0200 | |

Note: ICP - Inductively Coupled Plasma GFAA - Graphite Furnace Atomic Absorption CVAA - Cold Vapor Atomic Absorption

TABLE 5-1 (Continued) - VOLATILE ORGANICS

| | | (μg/L) Detection Limit | Soil (| ug/g) Detection Limit |
|----------------------------------|---------|------------------------------|--------|-----------------------|
| VOLATILE ORGANICS | | | | |
| Group B - Purgeable Organics (1) | | | | |
| Benzene | 1.70000 | | .00480 | |
| Carbon tetrachloride | 1.00000 | | .00200 | |
| Chlorobenzene | 1.20000 | | .00200 | |
| 1,2-Dichloroethane | 1.00000 | | .00480 | |
| 1,1,1-Trichloroethane | 1.00000 | | .00590 | |
| 1,1-Dichloroethane | 2.70000 | | .00730 | |
| 1,1,2-Trichloroethane | 1.70000 | | .00280 | |
| 1,1,2,2-Tetrachloroethane | 5.0000 | | .00500 | |
| Chloroethane | 6.90000 | | .12000 | |
| 2-Chloroethylvinyl ether | 1.60000 | | .00500 | |
| Chloroform | 1.00000 | | .01500 | |
| 1,1-Dichloroethylene | 6.80000 | | .01200 | |
| trans-1,2-Dichloroethylene | 2.20000 | | .00610 | |
| 1,2-Dichloropropane | 3.20000 | | .01000 | |
| 1,3-Dichloropropene | | | | |
| (cis and trans) | | 5 | | .005 |
| Ethylbenzene | 1.40000 | | .0100 | |
| Methylene Chloride | | 5 | | .005 |
| Chloromethane | 1.80000 | | .00450 | |
| Bromomethane | | 10 | | .01 |
| Bromoform | 3.70000 | | .00390 | |
| Bromodichloromethane | | 5 5 | | .005 |
| Fluorotrichloromethane | | 5 | | .005 |
| Chlorodibromomethane | 1.80000 | | .00230 | |
| Tetrachloroethene | 2.30000 | | .00790 | |
| Toluene | 1.80000 | | .00620 | |
| Trichloroethylene | 1.00000 | | .00200 | |
| | | | | |

Note:
1) EPA Method 624 by GCMS
2) EPA Method 625 by GCMS
3) EPA Method 608 by GC

TABLE 5-1 (Continued) - SEMIVOLATILE ORGANICS

| | Water | (µg/L) | Soil | (μg/g) |
|-------------------------------------|--------------|-----------|---------|--------------|
| | | Detection | | Detection |
| | CRL | Limit | CRL | <u>Limit</u> |
| SEMIVOLATILE ORGANICS | | | | |
| | (2) | | | |
| Group C - Base/Neutral Extractables | | | | |
| | | | 20000 | |
| Bis(2-chloroethyl)ether | 1.60000 | | .38000 | |
| 1,3-Dichlorobenzene | 5.50000 | | .30000 | |
| 1,4-Dichlorobenzene | 6.00000 | | .29000 | |
| 1,2-Dichlorobenzene | 5.20000 | •• | .33000 | • |
| Bis(2-chloroisopropyl)ether | | 10 | 4.000 | .3 |
| Hexachloroethane | 8.20000 | | .14000 | |
| N-Nitroso-di-n-propylamine | 6.70000 | | .11000 | |
| Nitrobenzene | 4.15000 | | 5.58000 | |
| Isophorone | | 10 | | .3 |
| Bis(2-chloroethoy)methane | | 10 | | .3 |
| 1,2,4-Trichlorobenzene | 4.60000 | | .17000 | |
| Naphthalene | 4.00000 | | .28000 | |
| Hexachlorobutadiene | 6.00000 | | .29000 | |
| Hexachlorocyclopentadiene | | 10 | | .3 |
| 2-Chloronaphthalene | 1.70000 | | .32000 | |
| Acenaphthalene | 3.70000 | | .31000 | |
| Dimethyl phthalate | | 10 | | .3 |
| Acenaphthene | 1.30000 | | .34000 | |
| Fluorene | | 10 | | .3 |
| Diethyl phthalate | | 10 | | .3 |
| 2,4-Dinitrotoluene | 5.40000 | | .46000 | • • |
| 2,6-Dinitrotoluene | 5.10000 | | .20000 | |
| 4-Chlorophenyl phenyl ether | | 10 | | .3 |
| N-Nitrosodiphenylamine | 1.66000 | | .84900 | •• |
| 4-Bromophenyl phenyl ether | 1.00000 | 10 | •04300 | .3 |
| Hexachlorobenzene | 2.80000 | 10 | .35000 | |
| Phenanthrene | .85000 | | 1.60000 | |
| Anthracene | 1.10000 | | .29000 | |
| Di-n-butyl phthalate | 1.10000 | 10 | .27000 | .3 |
| Fluoranthene | 1.20000 | 10 | .21000 | • |
| | | | .53000 | |
| Pyrene | 12.00000 | 10 | .33000 | 3. |
| Butyl benzyl phthalate | #1000 | 10 | .27000 | 3. |
| Benzo(aq)anthracene | .83000 | 40 | .27000 | 7 |
| 3,3'-Dichlorobenzidine | 1 00000 | 20 | 100000 | .7 |
| Chrysene | 1.00000 | | .190000 | |
| Bis(2-ethylhexyl)phthalate | 34.00000 | | .65000 | |
| Di-n-octyl phthlate | 18.00000 | | .35000 | |
| Benzo(a)pyrene | 4.50000 | | .16000 | |
| Indeno(1,2,3-ced)pyrene | 86.00000 | | .45000 | |
| Dibenzo(a,h)anthracene | 4.90000 | | .57000 | |
| Benzo(g,h,i)perylene | 38.0000 | | .52000 | |
| Benzo(b)fluoranthene+ | 2.40000 | | .25000 | |
| Benzo(k)fluoranthene | 2.90000 | | .22000 | |
| | | | | |

TABLE 5-1 (Continued) - SEMIVOLATILE ORGANICS

| | Water | (µg/L) | Soil | |
|---------------------------------|---------|--------------------|---------|--------------------|
| SEMIVOLATILE ORGANICS | CRL | Detection Limit | CRL | Detection Limit |
| | | | | |
| Group D - Acid Extractables (2) | | | | |
| Phenol | .92000 | | .06580 | |
| 2-Chlorophenol | 1.31000 | | .06040 | |
| 2-Nitrophenol | 10.0000 | | .30000 | |
| 2,4-Dimethylphenol | 7.11000 | | .09930 | |
| 2,4-Dichlorophenol | 1.80000 | | .02470 | |
| p-Chloro-m-cresol | | 10 | | •3 |
| 2,4,6-Trichlorophenol | 10.0000 | | .30000 | |
| 2,4-Dinitrophenol | 50.0000 | | 2.00000 | |
| 4-Nitrophenol | 5.57000 | | .07090 | |
| 4,6-Dinitro-o-cresol | 7.50000 | | 5.46000 | |
| Pentachlorophenol | 3.50000 | | 1.25000 | |

TABLE 5-1 (Continued) - PESTICIDES

| | Vater | (µg/L) Detection | Soil | (µg/g) Detection |
|-----------------------------|---------|---------------------|---------|---------------------|
| | CRL | Limit | CRL | Limit |
| PESTICIDES | | | | |
| | | | | |
| Group E - Pesticides/PCB(3) | | | | |
| Aldrin | 0.01240 | | 0.01070 | |
| Alpha - BHC | | 0.05000 | | 0.00800 |
| Beta - BHC | | 0.05000 | | 0.00800 |
| Gamma - BHC | 0.02220 | | 0.04390 | |
| Delta - BHC | | 0.05000 | | 0.00800 |
| Chlordane | 0.02650 | | 0.02760 | |
| 4,4'-DDD | 0.00785 | | 0.01740 | |
| 4,4'-DDE | 0.01390 | | 0.01430 | |
| 4,4'-DDT | 0.02150 | | 0.01700 | |
| Dieldrin | 0.00261 | | 0.00637 | |
| Endosulfan I | | 0.05000 | | 0.00800 |
| Endosulfan II | | 0.10000 | | 0.01600 |
| Endosulfan Sulfate | | 0.10000 | | 0.01600 |
| Endrin | | 0.10000 | | 0.01600 |
| Endrin aldehyde | | 0.10000 | | 0.01600 |
| Heptachlor | 0.01300 | | 0.01300 | |
| Heptachlor epoxide | 0.06500 | | 0.09440 | |
| Toxaphene | | 1.00000 | | 0.1600 |
| PCB-1016 | 0.14000 | | 0.06290 | |
| PCB-1221 | | 0.50000 | | 0.0800 |
| PCB-1232 | | 0.50000 | | 0.08000 |
| PCB-1242 | | 0.50000 | | 0.08000 |
| PCB-1248 | | 0.50000 | | 0.08000 |
| PCB-1254 | | 1.00000 | | 0.16000 |
| PCB-1260 | 0.07420 | | 0.04860 | |

TABLE 5-2 GROUND-WATER QUALITY REGULATORY CRITERIA

| | Safe | Drinking Water Act (µg/ | L) |
|----------------------------|--------------------|-------------------------|--------|
| <u>Parameters</u> | MCL | SMCL | MCLG |
| Volatile organics | | | |
| Vinyl chloride | 2 | - | 0 |
| trans-1,2-Dichloroethylene | 100* | - | 100* |
| 1,2-Dichloroethane | 5 | - | 0 |
| 1,1,1-Trichloroethane | 200 | - | 200 |
| 1,2-Dichloropropane | 5* | - | 0* |
| Trichloroethylene | 5 | - | 0 |
| Tetrachloroethene | 5.0* | - | 0* |
| 1,4-Dichlorobenzene | 75 | 5* | 75 |
| Bromoform | $100^{(a)}$ | - | - |
| Chlorodibromomethane | 100 ^(a) | - | - |
| Chloroform | $100^{(a)}$ | - | - |
| Dichlorobromomethane | $100^{(a)}$ | - | - |
| Carbon Tetrachloride | 5 | - | 0 |
| 1,1-Dichlorethylene | 7 | - | 7 |
| Benzene | 5 | - | 0 |
| Toluene | 2,000* | 40* | 2,000* |
| Ethylbenzene | 700* | 30* | 700* |
| 1,3-Dichlorobenzene | 600* | 10* | 600* |
| Semi-volatile Organics | | | |
| Pentachlorophenol | 200* | 30* | 200* |

MCL = Maximum Contaminant Level

Sources: Federal Register, Vol. 54, No. 97, Monday, May 22, 1989. p.22160 and 22064-5. Federal Register, Vol. 53, No. 160, Thurs., August 18, 1988, p. 31518, 31530 Federal Register, Vol. 52, No. 130, Weds., July 8, 1987, p. 25694.

MCLG = Maximum Contaminant Level Goal

SMCL = Secondary Maximum Contaminant Level

⁽a) Value is for individual chemicals or for combination of these chemicals.

⁽b) The silver MCL is proposed to be deleted.

^{* =} Proposed

TABLE 5-2 (Cont.)

| | | Safe Drinking | Water Act | <u> </u> |
|------------------|---------|-------------------|-----------|----------|
| Parameters | Current | Proposed | SMLC | MCLG |
| Inorganics | | | | |
| Arsenic | 50 | _ | - | _ |
| Beryllium | _ | _ | _ | _ |
| Cadmium | 10 | 5 | - | 5* |
| Chromium (total) | 50 | 100 | - | 100* |
| Copper | - | _ | 1000 | ~ |
| Lead | 50 | 5 | - | 0* |
| Mercury | ~ | 2 | - | 2* |
| Nickel | - | - | - | _ |
| Selenium | 10 | 50 | - | 50* |
| Silver | - | ₅₀ (b) | 90* | - |
| Thallium | - | ••• | - | - |
| Zinc | _ | | 5,000 | - |

A surface water sample (SW-1) and stream sediment sample (SS-1) were collected from a stream located near the southeastern corner of the site. This sample was collected downstream of an outfall for the site wastewater treatment system.

Four soil samples were obtained from 1 to 3 ft below grade to assess potential soil contamination. SS-2 was collected south of the acid storage shed, SS-3 was collected near the acid refueling platform, SS-4 was collected near a stormwater drainage pipe outfall, and SS-5 was collected at the sewage disposal filter bed outfall.

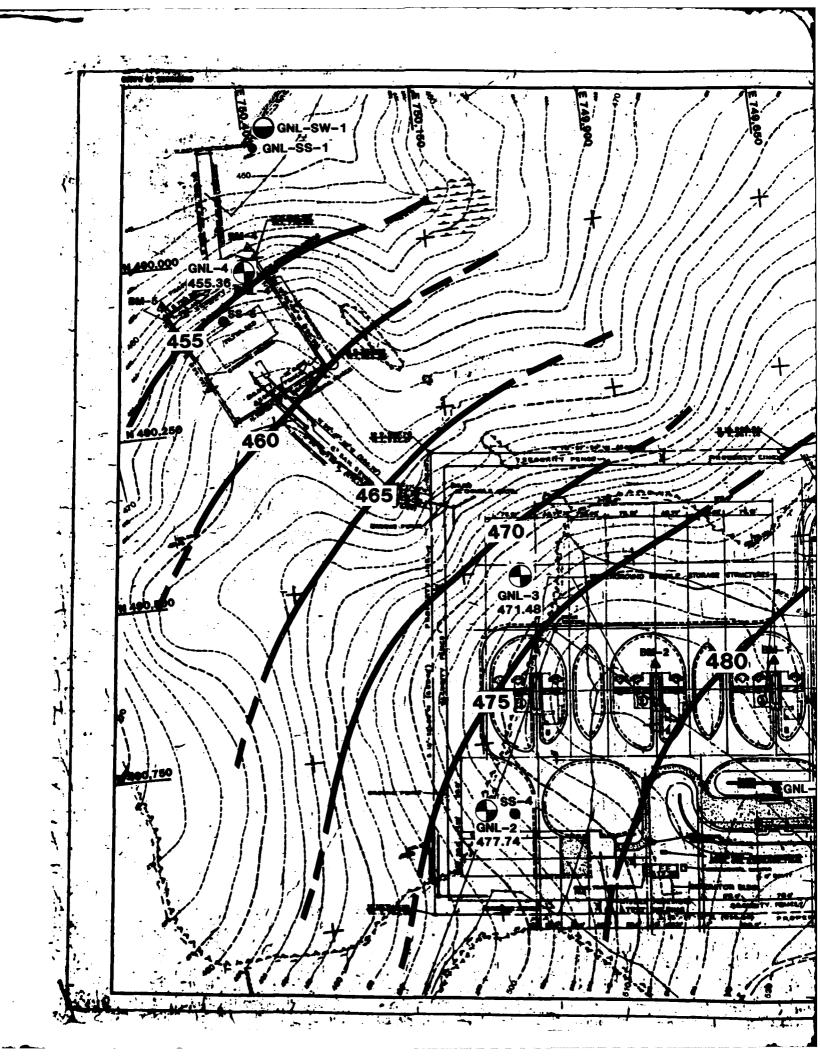
5.1.2 Site Characterization

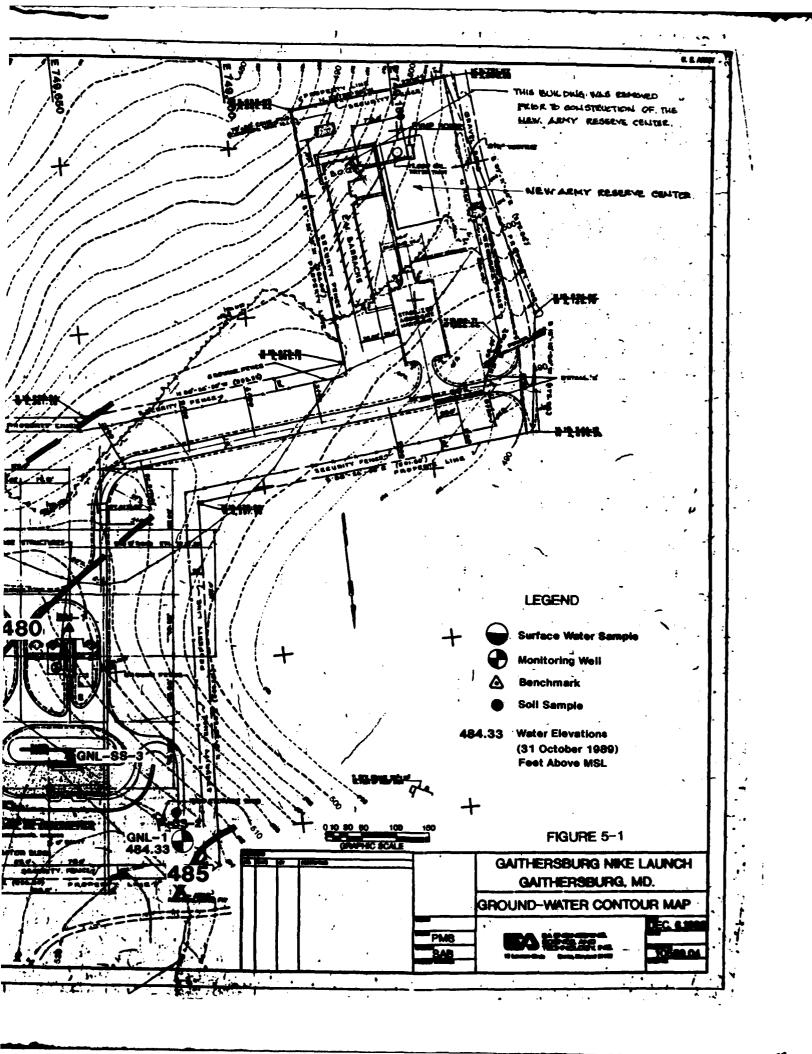
The Launch area is located approximately 1.5 mi north of the Control area. Surrounding land use consists of a mixture of single-family residences and farm land. An active U.S. Army Reserve Headquarters office occupies the front portion of the Launch area.

Important site features associated with past Army operations include three missile storage structures, acid refueling area, missile assembly and test building, generator building, acid storage shed, and wastewater disposal area. The locations of these features are shown on Figure 1-2. Four borings were drilled at this site and completed as monitoring wells. The soil samples collected from these borings indicate that the subsurface material consists primarily of clayey silt and fine sand (saprolite). All monitoring wells were screened in the saprolite. Depth to water measurements and water elevations obtained between 14 April 1989 and 19 December 1989 for the four onsite monitoring wells are shown on Table 5-3. A ground-water contour map was constructed for the site using static water-level measurements obtained on 31 October 1989 (Figure 5-1). Ground-water flow direction trends to the southeast towards a small south-westerly flowing surface stream.

| | Reference | | | 0 | oth to | to Water (ft) | £ () | | | | 3 | ater El | evation | (ft. | bove MS | [] | |
|----------|-----------|---|---|---------------|----------------|---|---------------|----------------|----------------|----------------|--|---------------|----------------|----------------|---------------|--|----------------|
| Well Ho. | | 14 APR 25 MAY 2 JUN 29 SE 1989 1989 1989 | 14 APR 25 MAY 2 JUN 29 SEP 31 OCT 7 MOV 31 MOV 19 DEC 1989 1989 1989 1989 1989 1989 1989 | 2 JUN 1989 | 29 SEP 1989 | 31 OCT 1989 | 7 MOV 1989 | 31 MOV 1969 | 19 DEC 1969 | 14 APR 1989 | 14 APR 25 MAY 2 JUN 29 SEP 31 OCT 7 NOV 31 NOV 19 DEC 1969 1969 1969 1969 1969 1969 1969 1989 | 2 JUN 1989 | 29 SEP 1989 | 31 OCT 1989 | 7 NOV 1989 | 31 NOV 1989 | 19 DEC 1989 |
| | | | | | | , | | ; | : | | • | r | • | • | , | 2 2 2 | 70 |
| GML-1 | 518.49 | 33.82 | 33.62 31.50 31.17 33.60 34.16 34.20 52.94 54.45 | 31.17 | 33.60 | 34.16 | 34.20 | 32.94 | 24.43 | 464.0 | 33. F3F 11.10F 67. F9F 67. F0F 60. F0F 77. OF 55. 60F 79. F9F | 70.70 | h 0 F | ? ? ? | 67 - Far |))) | |
| GML-2 | 505.91 | 25.95 | 25.95 23.05 23.10 28.07 28.17 28.21 28.00 28.29 | 23.10 | 28.07 | 28.17 | 28.21 | 28.00 | 28.29 | 479.96 | 479.96 482.86 482.81 477.84 477.74 477.70 477.91 477.62 | 482.81 | 477.84 | 477.74 | 477.70 | 477.91 | 477.62 |
| GML-3 | 506.52 | 33.92 | 33.92 31.73 31.55 35.15 35.04 35.20 35.15 35.59 | 31.55 | 35.15 | 35.04 | 35.20 | 35.15 | 35.59 | 472.60 | 472.60 474.79 474.97 471.37 471.48 471.32 471.37 470.93 | 474.97 | 471.37 | 471.48 | 471.32 | 471.37 | 470.93 |
| GNL-4 | 467.22 | · | 8.55 | 9.03 | 12.96 | 8.55 9.03 12.96 11.86 11.84 11.33 11.60 | 11.84 | 11.33 | 11.60 | 1 | 458.67 | 458.19 | 454.26 | 455.36 | 455.38 | 458.67 458.19 454.26 455.36 455.38 455.89 455.62 | 455.62 |

Mote: Reference elevation = top of PVC casing.





Slug tests were performed in monitoring wells GNL-3 and GNL-4 in order to estimate hydraulic properties of the water table (saprolite) aquifer (Section 4.5 Aquifer Tests). Permeability values calculated from slug test data ranged from 5.17×10^{-4} ft/min to 1.59×10^{-3} ft/min (Table 5-4). These permeability values are typical for fine sand and mixtures of sand, silt, and clayey material.

Table 5-5 is a partial record of water supply wells within a 1.5 mi radius of the Launch area. Figure 5-2 shows the approximate location of the wells listed in Table 5-5. Small residential communities surrounding the Launch area account for the majority of domestic wells. All domestic wells utilize the Wissahickon and associated saprolite aquifer.

5.1.3 Storage Structure Investigation

On 25 May 1989, EA staff accessed the three missile storage structures located at the Launch Area. The structures were entered by EA personnel utilizing hand-held instrumentation to detect organic vapors, explosive fumes, and oxygen level. No elevated organic vapors or explosive fume levels were detected, and oxygen levels in the structures did not differ from atmospheric levels. The main entrance of storage structure #2 was blocked with debris consisting mainly of furniture and garbage.

The missile storage structures are approximately 59 ft wide, 62 ft long, and 17 ft high. The hydraulic lift platform and associated pumps and motors were still in place at all storage facilities. Aluminum cans, glass bottles, wood debris, and furniture were scattered throughout the storage area. A red oily film was observed near the hydraulic lift pumps. A small amount of standing water was noted below the missile lift platform.

The control room cabinet is approximately 19 ft wide, 20 ft long, and 17 ft high. The walls are lined with sound insulation and are paneled.

TABLE 5-4 PERMEABILITY VALUES DERIVED FROM SLUG TESTS CONDUCTED IN GAITHERSBURG NIKE LAUNCH MONITORING WELLS

| <u>Vell</u> | ft/min_ | ft/sec | _cm/sec | gpd/ft2 |
|-------------------|-----------------------|-------------------------|-------------------------|---------|
| GNL-3 (TEST 1) | 5.17×10^{-4} | 8.62×10^{-6} | 2.63×10^{-4} | 5.57 |
| GNL-3 (TEST 2) | 6.84×10^{-4} | 1.14×10^{-5} | 3.48×10^{-4} | 7.37 |
| GNL-4 (TEST 1) | 1.59×10^{-3} | 2.65 x 10 ⁻⁵ | 8.06 x 10 ⁻⁴ | 17.1 |
| GNL-4 (TEST 2) | 1.49×10^{-3} | 2.48×10^{-5} | 7.55 x 10 ⁻⁴ | 16.0 |

TABLE 5-5 PARTIAL RECORD OF WATER SUPPLY WELLS WITHIN A 1.5 MILE RADIUS OF THE GAITHERSBURG NIKE LAUNCH AREA

| O Vn e r | Approximate Location | Date Completed | Depth of Well (ft) | Casing Depth (ft) | Screen Depth (ft) |
|----------|--------------------------------|-------------------|-----------------------------|-------------------------|-------------------------|
| | Lockhaven Dr., Laytonsville | 4/17 | 70 | 20 | 50-70 |
| Ħ | Emory Grove, Gaithersburg | 3/73 | 350 | 46 | |
| Ś | Strawberry Knoll, Gaithersburg | 5/83 | 145 | 81 | |
| ã | Brethren Dr., Gaithersburg | 1 | ; | 1 | |
| × | Exodus Dr., Laytonsville | 27/6 | 06 | 40 | 40-90 |
| Ī | Farcroft Ct., Laytonsville | 12/75 | 200 | 72 | |
| Lock | Lochaven Ct., Goshen | 91/1 | 06 | 67 | 06-19 |
| Plum | Plum Ck. Ct., Laytonsville | 4/77 | 130 | 51 | |
| Plum | Plum Ck. Dr., Goshen | 1 | 1 | ! | |
| Gosh | Goshen Ct., Goshen | 8/83 | 150 | 65 | |
| Pompa | Pompano Te., Laytonsville | 10/86 | 140 | 100 | |
| Warfi | Warfield Rd., Gaithersburg | 1 | } | ; | |
| Warfi | Warfield Rd., Gaithersburg | ł | 1 | 1 | |
| Warfi | Warfield Rd., Gaithersburg | 7/85 | 285 | 62 | |
| Breth | Brethern Rd., Goshen | 12/86 | 180 | 48 | |
| Goshe | Goshen Rd., Goshen | 21/6 | 115 | 09 | |
| Gosher | Goshen Rd., Goshen | 9/72 | 140 | 09 | |
| Warfi | Warfield Rd., Goshen | 1/73 | 120 | 09 | |
| Warfi | Warfield Rd., Goshen | 5/78 | 06 | 5.7 | 57-90 |
| Snout | Snouffer School Rd., Goshen | 1 | 1 | ! | |
| Warfi | Warfield Rd., Goshen | 8/78 | 160 | 46 | |
| Warfi | Warfield Rd., Goshen | 7/81 | 240 | 31 | |

| | | (Before Test) Static Water | (After Test) | 4 a d E | | |
|---------------------|-----------------------|-------------------------------|-------------------------------|--------------------|-------------|-------|
| State Permit Mo. | Owner | Level Below Surface (ft) | Water Level When Pumping (ft) | Pumping Rate (gpm) | Aquifer | Water |
| MO-73-1350 | James B. Gross | 36 | 61 | 1.2 | Wissahickon | - |
| MO-73-0248 | Joseph Dobson | 40 | 350 | 10 | Wissahickon | |
| MO-73-3655 | Wilbur R. Hines | 30 | 53 | 80 | Wissahickon | , Δ |
| MO-61-1736 | Vernon Murphy | ; | ; | ; | Wissahickon | ι Ω |
| MO-72-0225 | Fairfield Const. Co. | 8.4 | 61 | S | Wissahickon | . Δ |
| MO-73-0890 | Pettit & Griffin Inc. | 45 | 200 | 4 | Wissahickon | Α |
| MO-73-1061 | Richard J. Larz | 5.7 | 76 | 60 | Wissahickon | Δ |
| MO-73-1352 | James Zeck | 3.7 | 109 | ហ | Wissahickon | ۵ |
| MO-81-1338 | Glenn Brake, Jr. | ! | 1 | ; | Wissahickon | ۵ |
| MO-81-0538 | William E. Norman | 20 | 08 | 20 | Wissahickon | Δ |
| MO-81-1954 | Norsab Inc. | 36 | 46 | 10 | Wissahickon | ۵ |
| MO-81-0921 | Larry Orth | 1 | ŀ | 1 | Wissahickon | Δ |
| MO-81-0922 | Larry Orth | 1 | ; | 1 | Wissahickon | Ω |
| MO-81-1194 | John McEleney | 32 | 180 | 4 | Wissahickon | ۵ |
| MO-81-2088 | Ralph Mollet | 35 | 45 | 10 | Wissahickon | Q |
| MO-73-0037 | Pulte Home Corp. | 34 | 96 | 10 | Wissahickon | ۵ |
| MO-73-0039 | Pulte Home Corp. | 43 | 121 | 83 | Wissahickon | ۵ |
| MO-73-0242 | Calvin Burton | 40 | 120 | 15 | Wissahickon | ۵ |
| MO-73-1919 | Ward V. Buzzell | 3.7 | 61 | 9 | Wissahickon | Ω |
| MO-81-0730 | Kettler Bros. Inc. | 1 | ; | ! | Wissahickon | (tu |
| MO-73-2151 | Glen Koepenick Jr. | 40 | 160 | 4 | Wissahickon | Ω |
| MO-73-3298 | Barbara Massengill | 30 | 240 | 20 | Wissahickon | Ω |
| | | | | | | |

D = Domestic

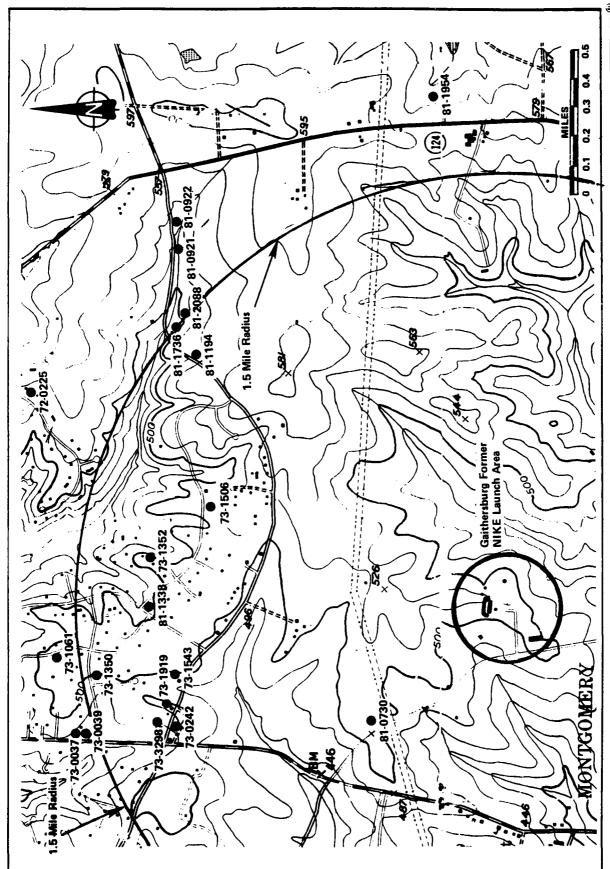


Figure 5-2. Approximate location of domestic water wells within a 1.5 mile radius of the Gaithersburg NIKE Launch Area. (Source: Gaithersburg Topographic Quadrangle, 1979, U.S.G.S.)

8

Much of the paneling has been ripped out and scattered about the floor. Insulation is exposed and may contain asbestos.

5.1.4 Data Assessment

5.1.4.1 Ground Water And Surface Water

Analytical results for ground water and surface water samples collected at the Launch site are summarized in Table 5-6 and presented in Appendix D. No volatile compounds were detected in the samples above the CRLs. The semivolatile compounds detected were Bis(2-Ethylhexyl) phthalate in GNL-4 at a concentration of 115.0 µg/L and Di-n-octyl phthalate in the surface water sample (SW-1) at a concentration of 43.9 µg/L. There are no regulatory criteria available to evaluate the two phthalate compounds that were detected in GNL-4 an GNL SW-1. Phthalates are a common component of plastics and detection of these compounds probably is attributable to field or laboratory contamination. A pesticide compound, heptachlor, was detected in all water samples including the field and method blank samples ranging in concentration from 0.080 μ g/L (SW-1) to 0.107 μ g/L (GNL-3 and 4). The detection of low levels of heptachlor, a pesticide, in the method blank sample indicates that the detection of this compound can be attributed to laboratory contamination.

A review of the dissolved metals data indicates that none of the detected levels exceed the current MCL criteria. However, the cadmium levels in all samples including the field blank exceed the proposed MCL and MCLG of 5 μ g/L. The detection of cadmium in the field blank and not the method blank raises the question of data validity and may be attributed to field contamination. The lead level (35 μ g/L) for the GNL-3 ground-water sample is below the current MCL of 50 μ g/L, but exceeds the proposed MCL of 5 μ g/L and proposed MCLG of 0 μ g/L. If the current MCL for lead is lowered to the proposed values in the future, the lead level in GNL-3 will be excessive and additional work to further document the problem should be considered.

SUMMARY OF ANALYTICAL RESULTS (µg/L) FOR GROUND WATER AND SURFACE WATER SAMPLES COLLECTED AT THE GAITHERSBURG NIKE LAUNCH SITE TABLE 5-6

| | Trip Blank | Field Blank | Method Blank | Mo GNL-1 | Monitoring We GNL-2 | Vell Number GNL-3 | CNL-4 | Surface Water GNL-SW-1 |
|--|---------------|--|-----------------|--|---|--|---|---|
| VOLATILE ORGANICS | CRL | <crl< th=""><th></th><th>CRL</th><th>CRL</th><th><grl< th=""><th>CRL</th><th>CRL</th></grl<></th></crl<> | | CRL | CRL | <grl< th=""><th>CRL</th><th>CRL</th></grl<> | CRL | CRL |
| SEMIVOLATILES bis(2-Ethylhexyl)phthalate Di-n-octyl phthalate | NA | CRL CRL | 9.3 | <crl <crl<="" th=""><th>CCRL CCRL</th><th><crl <crl< th=""><th>115.0 <crl< th=""><th><crl 43.9</crl </th></crl<></th></crl<></crl </th></crl> | CCRL CCRL | <crl <crl< th=""><th>115.0 <crl< th=""><th><crl 43.9</crl </th></crl<></th></crl<></crl | 115.0 <crl< th=""><th><crl 43.9</crl </th></crl<> | <crl 43.9</crl |
| PESTICIDES/PCBs Heptachlor | N | 0.08 | | 0.104 | 0.100 | 0.107 | 0.107 | 0.087 |
| Antimony Arsenic Beryllium Cadmium Cadmium Copper Lead Mercury Nickel Selenium Silver Thallium | A | CRL CRL CRL CRL CRL CRL CRL CRL CRL CRL | | 2.88 <crl <crl 7.4 <crl 17.7 4.57 4.57 0.15 <crl <crl <crl <crl <crl <crl <crl 39.3</crl </crl </crl </crl </crl </crl </crl </crl </crl </crl | CRL CCRL CCRL 7.83 CCRL 10.4 CCRL CCRL CCRL CCRL | CCRL CCRL CCRL 8.48 CCRL 14.4 35.0 0.12 CCRL CCRL CCRL | CRL CCRL CCRL 7.73 CCRL 14.4 CCRL O.10 CCRL CCRL CCRL CCRL | CRL CRL CRL CRL 6.65 CRL 9.60 CRL 0.10 CRL CRL CRL |
| NON-METALS Cyanide (total) Phenols (total) | NA | CRL CRL | | <crl <crl<="" th=""><th>CRL CRL</th><th>CRL CRL</th><th><crl <crl< th=""><th><crl <crl<="" th=""></crl></th></crl<></crl </th></crl> | CRL CRL | CRL CRL | <crl <crl< th=""><th><crl <crl<="" th=""></crl></th></crl<></crl | <crl <crl<="" th=""></crl> |

⁽¹⁾ Preliminary Data CRL = Certified Reporting Limit ND = Not Detected NA = Not Analyzed

All samples were also analyzed for PCB total phenols and cyanide and results indicate that none of these constituents were detected.

5.1.3.2 Soil

Analytical results for soil samples are summarized in Table 5-7 and presented in Appendix D. No volatile or semivolatile organic compounds were detected in the samples above the CRLs. Detected metals include Arsenic (SS-4), Beryllium (SS-1, 2, 3, 4, 5,), total Chromium (SS-1, 2, 4, 5), Copper (SS-1, 2, 3, 4, 5), Mercury (SS-2, 4, 5), Nickel (SS-1, 2, 3, 4, 5) and Zinc (SS-1, 2, 3, 4, 5). Observed levels are well within the expected background ranges for soils typical of the site.

5.2 FORMER NIKE CONTROL AREA SITE

5.2.1 Field Sampling Plan

In order to evaluate the nature of contamination as a result of past activities at the site, four monitoring wells were installed and sampled and three soil samples were collected for chemical analysis. The upgradient well (GNC-5) is located along the eastern boundary of the site. Wells GNC-6, GNC-7, and GNC-8 are located downgradient of potential contaminant sources (Figure 1-3). GNC-6 was installed downgradient of the engine generator and frequency changer building, dry well, and 6,000-gal gasoline UST. Wells GNC-7 and GNC-8 were placed downgradient of the wastewater disposal area and the 2,000-gal fuel oil UST, respectively.

Two surficial soil samples were obtained for chemical analysis from 1 to 3 ft below grade, near potential source areas of onsite contamination. Soil sample SS-1 was collected in a grassy surface drainage swale downgradient of the gasoline UST, engine generator and frequency changer building, and dry well. SS-2 was collected near the waste disposal

TABLE 5-7 SUMMARY OF ANALYTICAL RESULTS ($\mu g/g$) FOR SOIL SAMPLES COLLECTED AT THE GAITHERSBURG NIKE LAUNCH SITE

| | <u>SS-1</u> | <u>SS-2</u> | <u>SS-3</u> | <u>SS-4</u> | <u>SS-5</u> |
|-------------------|---|---|---|---|---------------------|
| VOLATILE ORGANICS | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |
| SEMIVOLATILES | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |
| PESTICIDES/PCBs | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |
| DISSOLVED METALS | | | | | |
| Antimony | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |
| Arsenic | <crl< td=""><td><crl< td=""><td><crl< td=""><td>2.71</td><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td>2.71</td><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td>2.71</td><td><crl< td=""></crl<></td></crl<> | 2.71 | <crl< td=""></crl<> |
| Beryllium | 0.487 | 0.792 | 0.670 | 1.040 | 0.823 |
| Cadmium | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |
| Chromium (total) | 10.90 | 12.90 | <crl< td=""><td>20.00</td><td>27.30</td></crl<> | 20.00 | 27.30 |
| Copper | 10.20 | 32.00 | 18.20 | 35.10 | 81.00 |
| Lead | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |
| Mercury | <crl< td=""><td>0.027</td><td><crl< td=""><td>0.018</td><td>0.033</td></crl<></td></crl<> | 0.027 | <crl< td=""><td>0.018</td><td>0.033</td></crl<> | 0.018 | 0.033 |
| Nickel | 9.14 | 8.59 | 4.76 | 8.45 | 21.40 |
| Selenium | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |
| Silver | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |
| Thallium | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |
| Zinc | 27.90 | 37.30 | 28.20 | 34.80 | 89.80 |
| NON-METALS | | | | | |
| Cyanide (total) | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |
| Phenols (total) | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |

CRL = Certified Reporting Limit

filter bed area. SS-3 was collected from the boring for monitoring well GNL-6 at a depth of 30 ft, which roughly corresponds to the water-table surface.

5.2.2 Site Characterization

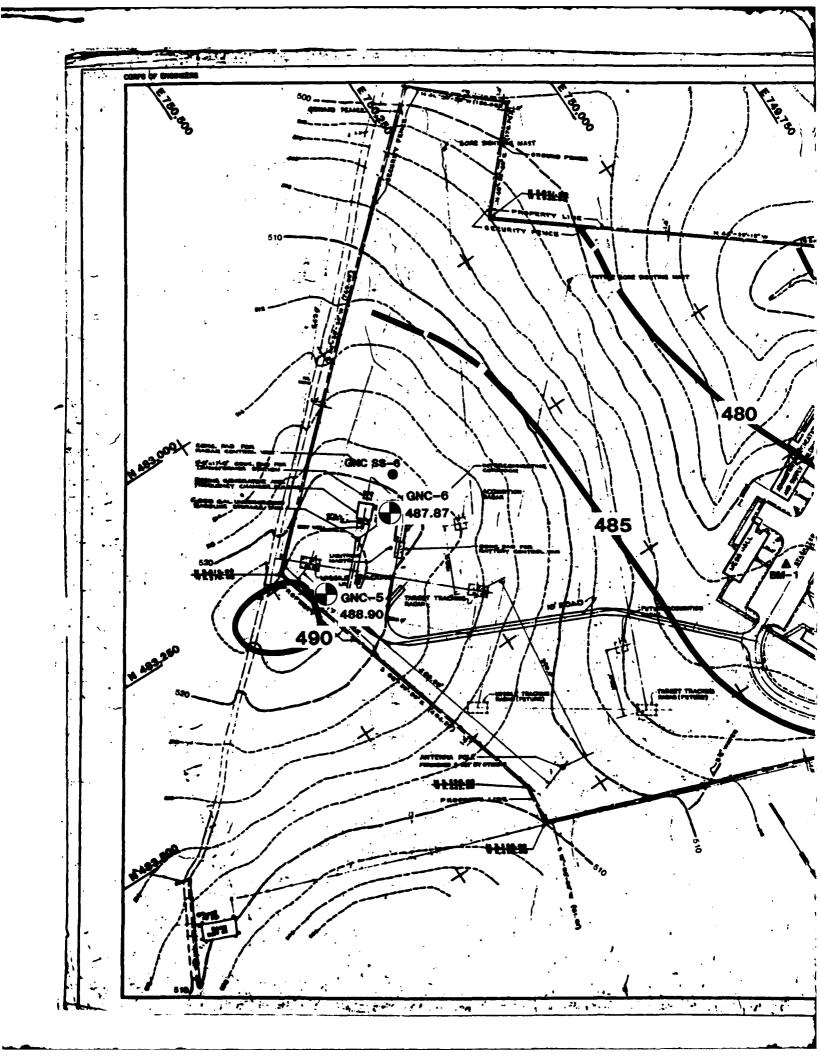
The Control area was formerly utilized as the Army Reserve Center in Gaithersburg, Maryland, and is not being used in any capacity at the present time. This site has been identified for closure in the Base Realignments and Closures Report prepared by the Defense Secretary's Commission in December 1988. It is located adjacent to several residential communities. The existing buildings onsite include the former mess hall, administration, barracks, and engine generator and frequency changer buildings. Other important site features include a dry well located northeast of the engine generator and frequency changer building and the wastewater disposal area. The components of the disposal area include the septic tank and siphon chamber, filter bed, and chlorinator house. The locations of these features are shown on Figure 1-3. Four USTs, one gasoline and three fuel oil, were also located onsite. All of these USTs were removed during the course of this PA/SI. Four borings were drilled at the site and completed as monitoring wells. Soil samples collected from the boring indicate that the site is underlain by a sequence of clayey silt and fine sand (saprolite). All monitoring wells at the site are screened in this material except GNC-8, which is partially screened within competent bedrock. Depth to water and water elevations obtained between 14 April 1989 to 19 December 1989 for the four onsite monitoring wells are shown in Table 5-8. A water table contour map was constructed for the site using static water-level measurements obtained on 31 October 1989 (Figure 5-3). Ground-water flow direction generally trends to the west.

Slug tests were performed on monitoring wells GNC-6 and GNC-8 in order to estimate the permeability of the water table (saprolite) aquifer (Section 4.5, Aquifer Tests). Calculated permeability values ranged from 6.30×10^{-4} ft/min to 2.13 to 10^{-3} ft/min (Table 5-9). The permeability values

TABLE 5-6 WATER LEVEL ELEVATIONS IN MONITORING WELLS AT THE GAITHERSBURG NIKE CONTROL SITE

| | Reference | | | 4 | | to Water (ft) | į. | | | | ** | Water E. | levation | Water Elevation (ft. above MSL) | bove MS | it.) | |
|----------|-----------|----------------|--|-------|----------------|----------------|---------------|-------------------------------------|---|----------------|----------------|---------------|----------------|---|---------------|----------------|----------------|
| Well Ho. | (ft above | 14 APR 1989 | 14 APR 25 MAY 2 JUN 29 SEP 31 OCT 7 MOV 31 HOV 19 DEC 1989 1989 1989 1989 1989 1989 | 1989 | 29 SEP 1989 | 31 OCT 1989 | 7 HOV 1989 | 31 HOV 1969 | 19 DEC 1989 | 14 APR 1989 | 25 MAY 1989 | 2 JUN 1989 | 29 SEP 1989 | 14 APR 25 MAY 2 JUN 29 SEP 31 OCT 7 NOV 31 NOV 19 DEC 1989 1989 1989 1989 1989 1989 1989 | 7 MOV 1989 | 31 NOV 1989 | 19 DEC 1989 |
| GMC-5 | 524.68 | | 1 | 35.05 | 35.01 | 35.78 | 35.93 | 36.24 | 35.05 35.01 35.78 35.93 36.24 36.48 | 487.84 | 1 | 489.63 | 489.67 | 489.63 489.67 488.90 488.75 488.44 488.20 | 488.75 | 488.44 | 488.20 |
| 9-0M5 | 522.19 | ; | 1 | 33.41 | 33.46 | 34.32 | 34.47 | 33.41 33.46 34.32 34.47 34.76 35.00 | 35.00 | } | ļ | 488.78 | 488.73 | 488.78 488.73 487.87 487.72 487.43 487.19 | 487.72 | 487.43 | 487.19 |
| GMC-7 | 488.70 | 14.17 | 13.50 | 13.96 | 15.65 | 14.98 | 15.10 | 15.01 | 14.17 13.50 13.96 15.65 14.98 15.10 15.01 15.42 | | 475.20 | 474.74 | 473.05 | 474.53 475.20 474.74 473.05 473.72 473.60 473.69 473.28 | 473.60 | 473.69 | 473.28 |
| GMC-8 | 503.84 | 19.20 | 17.48 | 17.16 | 19.58 | 19.97 | 20.04 | 20.13 | 19.20 17.48 17.16 19.58 19.97 20.04 20.13 20.44 | | 486.36 | 486.68 | 484.26 | 484.64 486.36 486.68 484.26 483.87 483.80 483.71 483.40 | 483.80 | 483.71 | 483.40 |

Mote: Reference elevation m top of PVC casing.



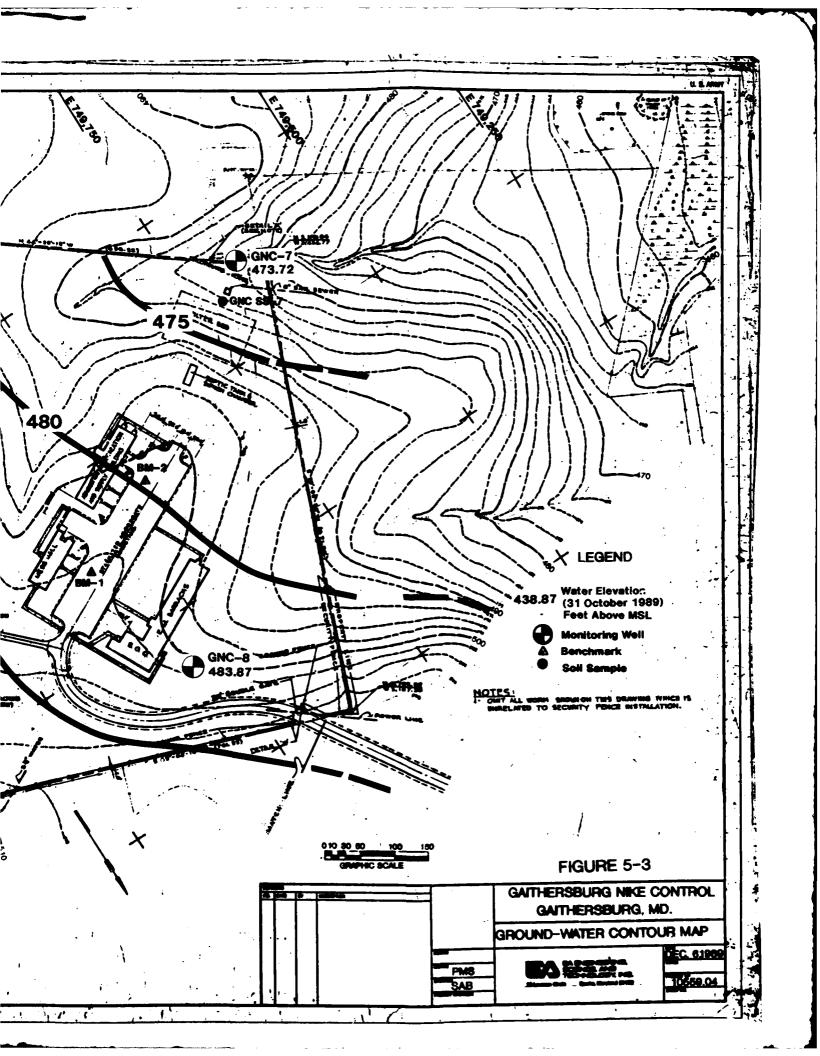


TABLE 5-9 PERMEABILITY VALUES DERIVED FROM SLUG TESTS CONDUCTED IN GAITHERSBURG NIKE CONTROL AREA MONITORING WELLS

| Well | ft/min | ft/sec | _cm/sec | gpd/ft ² |
|-------------------|-----------------------|-------------------------|-----------------------|---------------------|
| GNC-6 (TEST 1) | 1.98×10^{-3} | 3.29×10^{-5} | 1.00×10^{-3} | 21.3 |
| GNC-6 (TEST 2) | 2.13×10^{-3} | 3.56 x 10 ⁻⁵ | 1.08×10^{-3} | 23.0 |
| GNC-8 | 6 30 - 10-4 | 1.05 x 10 ⁻⁵ | 2.20 10-4 | ć 70 |
| (TEST 1) | 6.30 X 10 | 1.03 X 10 | 3.20 x 10 | 6.79 |
| GNC-8 (TEST 2) | 9.20×10^{-4} | 1.53×10^{-5} | 4.67×10^{-4} | 9.91 |

are typical for aquifers composed of fine sand and mixtures of sand, silt, and clay.

Table 5-10 is a partial record of water supply wells within a 1-mi radius of the Control area. Figure 5-4 shows the approximate location of the wells listed in Table 5-10. Nearby residential communities account for the majority of domestic wells. All wells utilize the Wissahickon and associated saprolite aquifer.

5.2.3 Data Assessment

5.2.3.1 Ground Water

The analytical results from ground-water samples collected at the Control site are summarized in Table 5-11 and presented in Appendix D. No volatile organic, pesticide/PCB, total phenols or cyanide compounds were detected above the CRLs. Di-n-octyl phthalate, a semivolatile organic compound, was detected in monitoring wells GNC-6, 7 and 8 at concentrations ranging between 23.7 µg/L to 36.8 µg/L. As stated in Section 5.1.4.1, there are no regulatory criteria for the phthalates and these compounds are a common component of plastics. The levels detected probably are attributable to field and/or laboratory contamination. Dissolved metals detected in the samples at levels above the CRLs include Antimony (GNC-7 and 8), Cadmium (GNC-5, 6, 7, and field blank), Copper (GNC-8), Nickel (GNC-7), and Zinc (GNC-5, 6, 7, 8). The cadmium levels in GNC-5, 6, 7 and the field blank range from 5.6 to 8.15 µg/L. These cadmium levels do not exceed the current MCL but slightly exceed the proposed MCL and MCLG of 5 µg/L; however, the detectior of cadmium in the field blank suggests that these cadmium levels could be attributed to field contamination.

Potable water supply samples were obtained from raw and treated water points at the control area of the Gaithersburg ARC in December 1983 by USAEHA. These samples were analyzed for volatile organic compounds, metals, and the inorganic parameters. The only potential problem noted

TABLE 5-10 PARTIAL RECORD OF WATER WELLS WITHIN A 1-MILE RADIUS OF THE GAITHERSBURG NIKE CONTROL SITE

| State Dermit No. | Owner | Approximate Location | Date Completed | Depth of Well (ft) | Casing Depth (ft) | Screen Depth (ft) |
|---------------------|-----------------------|--------------------------------|-------------------|-----------------------------|-------------------------|-------------------------|
| MO-73-0248 | Joseph Dobson | Egory Grove Rd., Gaithersburg | 3/73 | 350 | 4.6 | |
| MO-81-0604 | Pettit & Griffin Inc. | Emory Grove Rd., Gaithersburg | 10/83 | 200 | 29 | |
| MO-81-1278 | John A. Canterbury | Emory Grove Rd., Gaithersbug | 9/85 | 06 | 75 | 75-90 |
| MO-73-3655 | Wilbur R. Hines | Strawberry Knoll, Gaithersburg | 5/83 | 145 | 8 1 | |
| MO-81-1328 | William T. Duvall | EBory Grove Rd., Gaithersburg | 10/85 | 06 | 7.2 | l |
| MO-73-3144 | Larry Sanders | Emory Grove Rd., Emory Grove | 18/9 | 200 | 89 | |

| State Permit No. | Owner | Static Water Level Below Surface (ft) W | (After Test) Water Level When Pumping (ft) | (Test) Pumping Rate (qpm) | Aquifer | Water Use |
|---------------------|-----------------------|---|--|---------------------------------|-------------|--------------|
| MO-73-0248 | Joseph Dobson | 40 | 350 | 10 | Wissahickon | ۵ |
| MO-81-0604 | Pettit & Griffin Inc. | 6.1 | 126 | ক | Wissahickon | ۵ |
| MO-81-1278 | John A. Canterbury | 3.5 | 0 8 | 20 | Wissahickon | ۵ |
| MO-73-3655 | Wilbur R. Hines | 3.0 | 8.8 | 83 | Wissahickon | ۵ţ |
| MO-81-1328 | William T. Duvall | 3.0 | 85 85 | 2.0 | Wissahickon | ۵ |
| MO-73-3144 | Larry Sanders | 09 | 200 | ٢ | Wissahickon | Ω |

D = Domestic

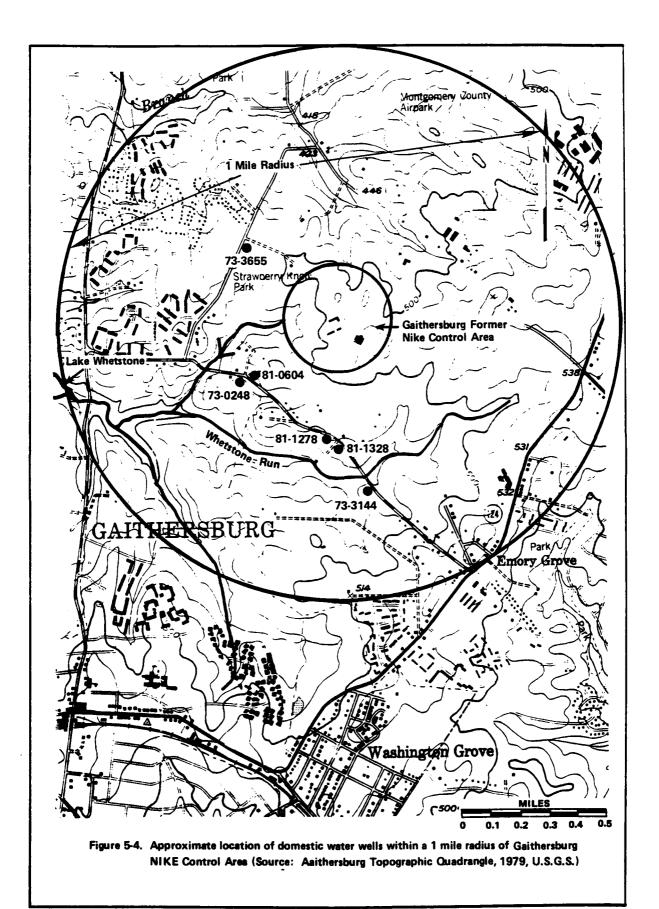




TABLE 5-11 GROUND-WATER ANALYTICAL RESULTS ($\mu g/L$) FOR SAMPLES COLLECTED AT THE GAITHERSBURG NIKE CONTROL SITE

| | | Monitoring W | all Numbers | |
|----------------------|---|---|---|---------------------|
| | GNC-5 | GNC-6 | GNC-7 | GNC-8 |
| | <u> </u> | <u> </u> | <u> </u> | 9.10 0 |
| VOLATILE ORGANICS | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |
| SEMIVOLATILES | | | | |
| Di-n-octyl phthalate | <crl< td=""><td>23.7</td><td>36.8</td><td>24.9</td></crl<> | 23.7 | 36.8 | 24.9 |
| PESTICIDES/PCB | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |
| DISSOLVED METALS | | | | |
| Antimony | <crl< td=""><td><crl< td=""><td><crl< td=""><td>3.0</td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td>3.0</td></crl<></td></crl<> | <crl< td=""><td>3.0</td></crl<> | 3.0 |
| Arsenic | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |
| Beryllium | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |
| Cadmium | 8.15 | 6.97 | 6.65 | <crl< td=""></crl<> |
| Chromium (total) | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |
| Copper | <crl< td=""><td><crl< td=""><td><crl< td=""><td>8.00</td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td>8.00</td></crl<></td></crl<> | <crl< td=""><td>8.00</td></crl<> | 8.00 |
| Lead | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |
| Mercury | 0.16 | 0.11 | 0.10 | 0.15 |
| Nickel | <crl< td=""><td><crl< td=""><td>33.3</td><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td>33.3</td><td><crl< td=""></crl<></td></crl<> | 33.3 | <crl< td=""></crl<> |
| Selenium | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |
| Silver | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |
| Thallium | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |
| Zinc | 30.5 | 19.4 | 19.4 | 21.1 |
| NON-METALS | | | | |
| Cyanide (total) | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |
| Phenols (total) | <crl< td=""><td><crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |

CRL = Certified Reporting Limit

was elevated iron concentrations--particularly in the treated/distributed water supply. No VOCs were detected. These data are included in Appendix D.

5.2.3.2 Soils

Analytical results for soil samples are summarized in Table 5-12 and presented in Appendix D. Volatile organic compounds were not detected above the CRLs. A semivolatile organic compound, Bis(2-ethylhexyl) phthalate, was detected in soil sample SS-8 at a concentration of 6.82 µg/g. Phthalates are a common component of plastics and the detection of this compound is probably due to laboratory or field contamination and is not likely an indication of contamination. Metals detected above the CRLs include Antimony (SS-8), Arsenic (SS-7), Beryllium (SS-6, 7, 8), total Chromium (SS-6, 7, 8), Copper (SS-6, 7, 8), Mercury (SS-7), Nickel (SS-6, 7, 8), and Zinc (SS-6, 7, 8).

These levels are well within the expected background range for soils typical of the site.

TABLE 5-12 SUMMARY OF ANALYTICAL RESULTS ($\mu g/g$) FOR SOIL SAMPLES COLLECTED AT THE GAITHERSBURG NIKE CONTROL SITE

| | <u>ss-6</u> | <u>SS-7</u> | <u>SS-8</u> |
|----------------------------|---|---|---------------------|
| VOLATILE ORGANICS | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |
| SEMIVOLATILES | | | |
| bis(2-Ethylhexyl)phthalate | <crl< td=""><td><crl< td=""><td>6.82</td></crl<></td></crl<> | <crl< td=""><td>6.82</td></crl<> | 6.82 |
| PESTICIDES/PCB | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |
| DISSOLVED METALS | | | |
| Antimony | <crl< td=""><td><crl< td=""><td>1.17</td></crl<></td></crl<> | <crl< td=""><td>1.17</td></crl<> | 1.17 |
| Arsenic | | 2.55 | |
| Beryllium | 0.731 | 1.58 | 1.60 |
| Cadmium | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |
| Chromium (total) | 10.4 | 40.3 | 24.2 |
| Copper | 20.5 | 100.0 | 29.5 |
| Lead | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |
| Mercury | <crl< td=""><td>0.02</td><td><crl< td=""></crl<></td></crl<> | 0.02 | <crl< td=""></crl<> |
| Nickel | 4.07 | 36.1 | 29.4 |
| Selenium | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |
| Silver | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |
| Thallium | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |
| Zinc | 20.8 | 100.0 | 151.0 |
| NON-METALS | | | |
| Cyanide (total) | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |
| Phenols (total) | <crl< td=""><td><crl< td=""><td><crl< td=""></crl<></td></crl<></td></crl<> | <crl< td=""><td><crl< td=""></crl<></td></crl<> | <crl< td=""></crl<> |

CRL = Certified Reporting Limit

6. CONCLUSIONS

The overall objective and scope of this PA/SI study were to evaluate the available information relative to past Army operations, review the initial installation assessment document, and develop a field sampling plan to address the potential for contamination problems associated with past Army operations. The field sampling plan for this PA/SI study was developed with the idea of obtaining sufficient data to ascertain the need for further environmental work. Ground-water, surface water, and soil samples were collected for analysis in proximity to potential contaminant source areas located at each site. The following sections provide the conclusions that have been drawn from the chemical analysis of the samples collected.

6.1 GAITHERSBURG NIKE LAUNCH SITE

The Launch area data assessment indicates that there is no evidence of volatile organic contamination in any of the samples collected. The low level detection of the two phthalate compounds Bis(2-ethylhexyl)phthalate in GNL-4 and Di-n-octyl phthalate in GNL-SW-1, a surface water sample, probably is due to field or laboratory contamination. Phthalate compounds in general are ubiquitous in nature and it is likely that the detection of the compounds is not due to past Army operations. The detection of cadmium in all samples including the field blank suggests that field contamination is the likely source of the cadmium and not due to past Army operations. The detection of lead in GNL-3 at 35 ppb is below the current MCL of 50 ppb, but is higher than the proposed MCL and MCLG of 5 and 0 µg/L, respectively. The lead level in the GNL-3 water sample may be a problem in the future if the proposed MCL or MCLG is classified as final. Items not addressed fully, during this PA/SI at the launch area include the 1,000-gal fuel oil UST, and the potential for PCBs to be in the hydraulic fluid in the missile storage structures. Also, the potential for asbestos material in the missile storage structures has not been evaluated.

6.2 GAITHERSBURG NIKE CONTROL

The Control area data assessment also indicates that there is no evidence of volatile organic, pesticide, PCB, or total cyanide and phenol contamination in any of the samples collected at the site. As was the case at the Launch site, a semivolatile compound, Di-n-octyl phthalate, was detected at low levels in ground-water samples collected from GNC-6, 7, and 8 ranging from 23.7 to 36.8 ppb. As stated in the Launch area conclusions, the presence of this compound may be attributed to field or laboratory contamination and is not likely due to past Army operations. The detected cadmium levels in GNC-5, 6, and 7 also are viewed consistent with the Launch area data assessment and conclusions because the sampling at both sites was performed as one sampling event. Again, the field blank contained approximately equal levels of cadmium, thus suggesting field contamination.

Items not fully addressed by this PA/SI study include the four USTs, dry well, transformers, asbestos, and lead paint.

7. RECOMMENDATIONS

The future use of these sites, and in particular the potential for ground-water use, should be considered when decisions are made concerning the need for additional ground-water monitoring. Both of these sites are in close proximity to a municipal water system and it is likely that this system would supply water to the sites instead of relying on ground-water. If, however, the future development plans include ground-water use, an additional comprehensive ground-water sampling event is recommended to further define the low level of lead detected in well GNL-3, confirm or deny the cadmium levels detected, and to provide a greater level of assurance beyond a single sampling round.

The other potential areas of concern not addressed fully during this PA/SI include the dry well and four former USTs at the Control area and one UST at the Launch area, plus the potential for asbestos materials at both sites. Also the hydraulic fluid in the hydraulic lift systems in the missile storages structures at the Launch area and the transformers at the Control area should be sampled and analyzed for PCB. It is understood that USATHAMA intends to address these items during a follow-up investigation.

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APPENDIX A

SOIL BORING LOGS AND WELL COMPLETION DIAGRAMS

LOG OF SOIL BORING

15 LOVETON CIRCLE

SPARKS, MARYLAND 21152

TELE: 301-771-4950

BORING NO. GNL-1

Coordinates:

Geologist: M. ROMANAK

Surface Elevation: 516.36 FT.

Casing Above Surface: 2.13 FT.

Reference Elevation:

Reference Description: GROUND

Location: GAITHERSBURG LAUNCH AREA

Job No. 10559.03

Client: USATHAMA

Drilling Method: MOBILE B-61 DRILL RIG,

HSA: 7 7/8 IN. O.D., 3 3/8 IN. I.D.

Sampling Method: SPT - 24 IN. LONG, 1 3/8 IN. I.D.

SPLIT SPOON, DRIVEN 18 IN. WITH 140 LB. HAMMER, 30 IN. DROP

Start Date: 11 APRIL 1989

Completion Date: 12 APRIL 1989

| SAMP | | | | | | DVA PPM | | GRAPH: | SURFACE CONDITIONS LEVEL GRASSY FIELD, SUNNY HIGH 50'S |
|------|----|----|---|----|---------|------------|---------------------|----------|---|
| | 18 | | | | 3-4-4 | 0 | o _ x _ | ML | MODERATE BROWN (5YR4/4), S. HOIST CLAYEY SILT, MICACEOUS MEDIUM STIFF |
| SPT | 18 | 15 | 2 | 6 | 3-4-7 | 0 | 5 X - | ML SH | MOTTLED, LIGHT BROWN (SYRS/6) TO BLACK (N1), S.MOIST, CLAYEY SILT WITH FINE SAND, MICACEDUS, MEDIUM STIFF LIGHT BROWN (SYRS/6), S. MOIST, SILTY FINE SAND WITH CLAY, MED. DENSE |
| SPT | 18 | 18 | 3 | 11 | 15-11-9 | 0 | 10 X | ML. | MOTTLED GREENISH GRAY (56Y6/1), BLACK (N1),LIGHT BROWN (5YR5/6) 5.MOIST, SILT WITH CLAY AND SAND, SOAPY SCHISTOSE TEXTURE, MICACEDUS, VERY STIFF, SAPROLITE |
| SPT | 18 | 14 | 4 | 16 | 7-14-15 | 0 | 15 X _ - - | ML | MOTTLED MODERATE YELLOW BROWN (10YRS/4), LIGHT BROWN (5YR S/6), BLACK (N1), S. MOIST, CLAYEY SILT WITH SAND, QUARTZITE ROCK FRASMENT SAPROLITE |
| - | | | | | | | 20 _ | | |

SAMPLER TYPE SS-DRIVEN SPLIT SPOON
SH-PRESSED SHELBY TUBE
DST-OSTENBURG PISTON SAMPLER
DEN-DENISON CORE BARREL SAMPLER
SPT-STANDARD PENETRATION TEST (ASTM D 1586-84)

GROUND-WATER DEPTH BELOW GRADE AT COMPLETION AFTER AFTER 24 HRS.

FT. FT.

LOG OF SOIL BORING

15 LOVETON CIRCLE

SPARKS, MARYLAND 21152

TELE: 301-771-4950

BORING NO. SNL-1

Coordinates:

Geologist: M. ROMANAK Surface Elevation: 516.36 FT. Casing Above Surface: 2.13 FT.

Reference Elevation: Reference Description: GROUND

Location: GAITHERSBURG LAUNCH AREA
Job No. 10559.03
Client: USATHAMA
Drilling Method: MOBILE 8-61 DRILL RIG,
HSA: 7 7/8 IN. 0.D., 3 3/8 IN. 1.D.
Sampling Method: SPT - 24 IN. LONG, 1 3/8 IN. I.D.
SPLIT SPOON, DRIVEN 18 IN. WITH 140 LB. HAMMER, 30 IN. DROP
Completion Date: 12 APRIL 1989

Start Date: 11 APRIL 1989

| SA TY | FE : | IN Drvn | IN RCVD | SAMP NO. | SAMP DPTH | BLOWS/6* | | IDEPTH IFEET | GRAPH LOG | SURFACE CONDITIONS LEVEL GRASSY FIELD, SUNNY HIGH 50'S |
|----------|------|------------|------------|-------------|--------------|---------------------------|---|---------------------|--------------|---|
| | PT | 18 | 18 | | 21 | 10-16-16 | 0 | 20 X _ | ML | SOIL DESCRIPTION GREENISH GRAY (56Y6/1), TO LIGHT BROWN (5YRS/6), S. MOIST, CLAYEY SILT WITH SAND, HARD, SAPROLITE |
| - S | PT | 18 | 18 | 6 | 26 | 7–12–15 | 0 | - 25 X _ - | M | MODERATE YELLOWISH BROWN (10YR5/4), S. MOIST, CLAYEY SILT, VERY STIFF,SAPROLITE, INCREASE IN MOISTURE AT BASE OF SPOON |
| | PT | 18 | 18 | 7 | 31 | 10–10–11 | 0 | 30 _ x _ | ML | S. MOIST SAPROLITE, SAME AS ABOVE |
| SF | PT | 18 | 18 | 8 | 36 | 4 -7- 9 | 0 | - 35 X _ - | HL. | MOTTLED GREENISH GRAY (56Y6/1), LIGHT BROWN (5YR5/6), BLACK (N1), MOIST, CLAYEY SILT, STIFF, SAPROLITE |
| - | | | | | | | | - 40 _ | | |

SAMPLER TYPE
SS-DRIVEN SPLIT SPOON
SH-PRESSED SHELBY TUBE
OST-OSTENBURG PISTON SAMPLER
DEN-DENISON CORE BARREL SAMPLER
SPT-STANDARD PENETRATION TEST (ASTM D 1586-84)

GROUND-MATER DEPTH BELOW GRADE AT COMPLETION AFTER HRS. **AFTER** 24 HRS.

FT. FT.

LOG OF SOIL BORING

15 LOVETON CIRCLE

SPARKS, MARYLAND 21152

TELE: 301-7/1-4950

BURING NO. SNL-I Coordinates:

Geologist: M. ROMANAK Surface Elevation: 516.36 FT. Casing Above Surface: 2.13 FT.

Reference Elevation:

Reference Description: GROUND

Location: GAITHERSBURG LAUNCH AREA Job No. 10559.03 Client: USATHAMA

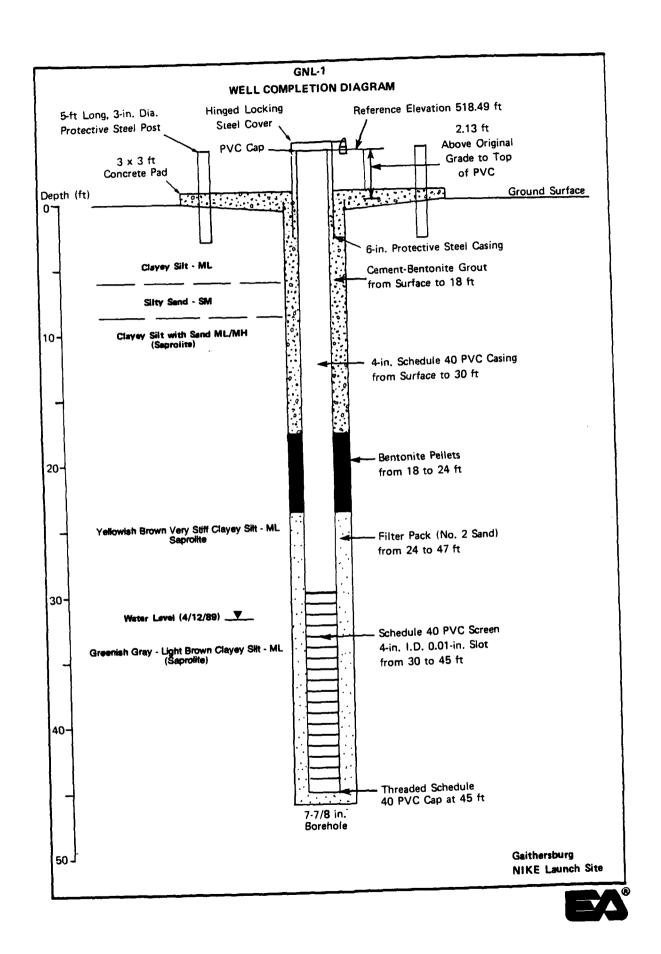
Drilling Method: MOBILE B-61 DRILL RIG,
HSA: 7 7/8 IN. O.D., 3 3/8 IN. I.D.
Sampling Method: SPT - 24 IN. LONG, 1 3/8 IN. I.D.
SPLIT SPOON, DRIVEN 18 IN. WITH 140 LB. HAMMER, 30 IN. DROP

Completion Date: 12 APRIL 1989 Start Date: 11 APRIL 1989

| | SAMP TYPE | | | | | | | DEPTH FEET | GRAPH LOG | SURFACE CONDITIONS LEVEL GRASSY FIELD, SURNY HIGH 50'S |
|--------|--------------|---|---|----|---|-----------|---|-----------------------------|--------------|---|
| - | SPT | 9 | 9 | 9 | 41 | 15-51/3* | 0 | 40 _ X _ | ML | SOIL DESCRIPTION MET SPOON GREENISH GRAY (56Y6/1), TO LIGHT BROWN (5YR5/6), MOIST, CLAYEY SILT WITH SAND, HARD, SAPROLITE |
| - | SPT | 13 | 8 | 10 | 46 | 14- 55/5" | 0 | - 45 _ X _ | | SAPROLITE , SAME AS ABOVE |
| - | | t t e i r t t t t t t t t t t t t t t t t t t | | | 5 5 6 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | | | - - 50 _ | | AUGERS TO 45', LEAVE IN HOLE OVERNIGHT INORDER TO MEASURE STATIC WATER LEVEL HOLE CAVED TO 40', REEMED HOLE TO 50', PULLED AUGERS HOLE CAVED TO 47', BACKFILL HOLE W/ SAND PACK TO 45' INSTALL MONITORING WELL 4-12-89 |
| | | 7 | | | 1 | | | - - - - - 55 | | NO. 10 SLOT 4" ID PVC SCREEN 45-30" (15") 4" PVC RISER CASING 30"-SURFACE (30") NO.2 SAND PACK 47"-24" (23") BENTONITE PELLETS 24"-18" (6") BENTCEMENT GROUT 18"-SURFACE (18") 6" PROTECTIVE STEEL CASING AND LOCKING CAP |
| - | | | | | | | 1 | - | | |
| - - | | | | | | | | 60 _ | - | |

SAMPLER TYPE
SS-DRIVEN SPLIT SPOON
SH-PRESSED SHELBY TUBE
OST-OSTENBURG PISTON SAMPLER
DEN-DENISON CORE BARREL SAMPLER
SPT-STANDARD PENETRATION TEST (ASTM D 1586-84)

GROUND-NATER DEPTH BELOW GRADE AT COMPLETION AFTER AFTER 24 HRS.



LOG OF SOIL BORING

15 LOVETON CIRCLE

SPARKS, MARYLAND 21152

TELE: 301-771-4950

BORING NO. GNL-2

Coordinates:

Geologist: M. ROMANAK Surface Elevation: 503.74 FT.

Casing Above Surface: 2.17 FT.

Reference Elevation:

Reference Description: GROUND

Location: GAITHERSBURG LAUNCH AREA

Job No. 10559.03

Client: USATHAMA

Drilling Method: MOBILE B-61 DRILL RIG,

HSA: 7 7/8 IN. 0.D., 3 3/8 IN. I.D.

Sampling Method: SPT - 24 IN. LONG, 1 3/8 IN. I.D.

SPLIT SPOON, DRIVEN 18 IN. WITH 140 LB. HAMMER, 30 IN. DROP

Start Date: 12 APRIL 1989

Completion Date: 13 APRIL 1989

| | SAMP Type | | | | | | : OVA | | GRAPH: | SURFACE CONDITIONS LEVEL GRASSY FIELD, SUMMY HIGH 50'S |
|----|--------------|----|----|---|----|----------------|-----------------------|-----------|--------|---|
| _: | | — | | | | | | 0_ | | SOIL DESCRIPTION |
| - | SPT | 18 | 9 | 1 | 1 | 2-3-5 | 0 | X - | CL | MODERATE BROWN (5YR4/4), S. MOIST, SILTY CLAY, WITH MINOR GRAVEL AT TOP, MICACEOUS, MEDIUM STIFF |
| - | | • | | | | | | - | ! | |
| - | SPT: | 18 | 10 | 2 | 6 | 2-4-4 | 0 | X - | ML. | MOTTLED, LIGHT BROWN (5YR5/6), GREENISH GRAY (5GY6/1), TO BLACK (N1) S. MOIST, CLAYEY SILT, MICACEDUS, MEDIUM STIFF, SCHISTOSE TEXTURE, SAPROLITE |
| - | | | | | | | | - 10 _ | | |
| - | SPT | 18 | 18 | 3 | 11 | 4-6-11 | 0 | X _ | # PL # | MOTTLED GREENISH GRAY (56Y6/1), BLACK (N1), LIGHT BROWN (5YR5/6) S.MOIST, CLAYEY SILT, SOAPY SCHISTOSE TEXTURE, MICACEDUS, STIFF, SAPROLITE |
| | | | | | | | ! ! ! ! ! | - | 1 | |
| | SPT | 18 | 18 | 4 | 16 | 9-11-16 | 0 | X - | ML | MOTTLED MODERATE YELLOW BROWN (10YRS/4), GREENISH GRAY (56Y 6/1), BLACK (N1), MOIST, CLAYEY SILT, MICACEGUS, VERY STIFF, SAPROLITE |
| -: | | | | | | | | 20 _ | | |

SAMPLER TYPE
SS-DRIVEN SPLIT SPOON
SH-PRESSED SHELBY TUBE
OST-OSTENBURG PISTON SAMPLER
DEN-DENISON CORE BARREL SAMPLER
SPT-STANDARD PENETRATION TEST (ASTM D 1586-84)

GROUND-MATER DEPTH BELOW GRADE AT COMPLETION AFTER HRS. AFTER 24 HRS.

FI.

LOG OF SOIL BORING

15 LOVETON CIRCLE

SPARKS, MARYLAND 21152

TELE: 301-771-4950

BURING NO. GNL-2 Coordinates: Seologist: M. ROMANAK Surface Elevation: 503.74 FT.

Casing Above Surface: 2.17 FT. Reference Elevation: Reference Description: GROUND

Location: GAITHERSBURG LAUNCH AREA
Job No. 10559.03
Client: USATHAMA
Drilling Method: MOBILE 8-61 DRILL RIG,
HSA: 7 7/8 IN. 0.D., 3 3/8 IN. I.D.
Sampling Method: SPT - 24 IN. LONG, 1 3/8 IN. I.D.
SPLIT SPOON, DRIVEN 18 IN. WITH 140 LB. HAMMER, 30 IN. DROP

Start Date: 12 APRIL 1989

Completion Date: 13 APRIL 1989

| | | | | SAMP NO. | | | UVA PPM | | GRAPH: | SURFACE CONDITIONS LEVEL GRASSY FIELD, SUNNY HIGH 50'S |
|----|----------|-------------|----|-------------|----|--------------------|-----------------------|-------------------|--|--|
| 1 | | - | | — | | | <u></u> | <u> </u> | | SOIL DESCRIPTION |
| - | SPT | f R | 18 | 5 | 21 | 4-11-12 | . 0 | ²⁰ — | ML | MOIST SAPROLITE, SAME AS ABOVE WITH MINOR GRAVEL |
| - | . | | 10 | J | | 1 12 | ; V | , | '- | TOTAL OF THE PARTY TO THE PARTY |
| -; | | | | | | | 9 1 1 3 | - - | | |
| -! | | | | | | | 1 1 1 1 1 | - | | |
| - | ~ | 10 | 40 | , | | | | : ²⁵ – | | |
| - | SP1 | 18 | 18 | 6 | 26 | 18-12-15 | : 0 ! | , | ML | MOTTLED, LIGHT BROWN (SYRS/6), GREENISH GRAY (SGY6/1), TO BLACK (N1) MOIST, CLAYEY SILT, MICACEOUS, VERY STIFF, SCHISTOSE TEXTURE, SAPROLITE |
| | | 1 | 1 | | | | ; 1 1 | - | | |
| - | | | | | | | ; ! | : : : | : : | |
| - | | 1 | | | | | f T i i | 30 _ | , | |
| -; | SFT | 18 | 18 | 7 | 31 | 14-14-16 | (| X - | I ML | MOTTLED GREENISH GRAY (56Y6/1), BLACK (N1).LIGHT BROWN (5YR5/6) V. MOIST, CLAYEY SILT, SOAPY SCHISTOSE TEXTURE, MICACEOUS, VERY STIFF, SAPROLITE |
| - | | | | | | | ; ! ! | i – | | MICHLEUUS, VERY SIIFF, SHPROLITE |
| - | | | | | | | ! ! | - | | AUGERS TO 39', PULLED AUGERS HOLE CAVED TO 36' |
| _ | | 1 | | | | | : ! ! | 35 _ | | INSTALLED MONITORING WELL 4-13-89 NO. 10 SLOT 4" PVC SREEN 36'-21' (15') |
| - | ! | ! | | | | | ; ; ; | : : : : | | 4" PVC RISER CASING 21"-SURFACE (21') NO.2 SAND PACK 36'-16' (20') |
| - | | | ! | | | | ! | - | | BENTONITE PELLETS 16'-12' (4') BENTO,-CEMENT GROUT 12'-SURFACE (12') (A. PROTESTALE CASELLE AND LECKING CAR |
| - | 1 | ; t i | 1 | | | ; | ; ! ! | ; | i i | 6" PROTECTIVE STEEL CASING AND LOCKING CAP |
| _! | | | | | | | | 40 _ | | |
| i. | | | | | | - | ! | | [[| |

SAMPLER TYPE
SS-DRIVEN SPLIT SPOON
SH-PRESSED SHELBY TUBE
OST-OSTENBURG PISTON SAMPLER
DEN-DENISON CORE BARREL SAMPLER
SPT-STANDARD PENETRATION TEST (ASTM D 1586-84)

GROUND-WATER DEPTH BELOW GRADE AT COMPLETION AFTER AFTER HRS. 24 HRS.



LOG OF SOIL BORING

15 LOVETON CIRCLE

SPARKS, MARYLAND 21152

TELE: 301-771-4950

BORING NO. GNL-3

Coordinates:

Geologist: M. ROMANAK

Surface Elevation: 504.29 FT.

Casing Above Surface: 2.23 FT.

Reference Elevation:

Reference Description: GROUND

Location: GAITHERSBURG LAUNCH AREA

Job No. 10559.03

Client: USATHAMA

Drilling Method: MOBILE 8-61 DRILL RIG,

HSA: 7 7/8 IN. O.D., 3 3/8 IN. I.D.

Sampling Method: SPT - 24 IN. LONG, 1 3/8 IN. I.D.

SPLIT SPOON, DRIVEN 18 IN. WITH 140 LB. HAMMER, 30 IN. DROP

Start Date: 13 APRIL 1989

Completion Date: 13 APRIL 1989

| | SAMP TYPE | | | | | | OVA | | GRAPH: | SURFACE CONDITIONS SLOPPING GRASSY FIELD, PARTLY CLOUDY MID 50'S |
|---|--------------|----|----|---|----|--------------------|-----|----------------|----------|---|
| _ | SPT | 18 | 18 | 1 | 1 | 2-2-2 | 0 | o _ | <u> </u> | SOIL DESCRIPTION MODERATE BROWN (5YR4/4), S. MOIST, SILTY CLAY, WITH MINOR GRAVEL, SOFT |
| | SPT | 18 | 18 | 2 | 6 | 3-3-5 | 0 | 5 X - | ML | MOTTLED, GREENISH GRAY (56Y6/1), LIGHT BROWN (5YR5/6) TO BLACK (N1) CLAYEY SILT, MICACEOUS, SCHISTOSE TEXTURE, MEDIUM STIFF, SAPROLITE |
| | SPT: | 18 | 18 | 3 | 11 | 3 -4- 5 | 0 | 10 X - | HL. | MUTTLED GREENISH GRAY (SSY6/1), BLACK (N1), LIGHT BROWN (SYRS/6) S.MOIST, CLAYEY SILT, SOAPY SCHISTOSE TEXTURE, MEDIUM STIFF, SAPROL: |
| | 9 27 | 18 | 18 | 4 | lė | 4-5-9 | 0 | 15 X _ - | HL | MOTTLED GREENISH GRAY (SGY6/1), LIGHT BROWN (SYR 5/6), BLACK (N1), S. MOIST, CLAYEY SILT, STIFF, SAPROLITE |
| - | | | | | | | | 20 _ | | |

SAMPLER TYPE
SS-DRIVEN SPLIT SPOON
SH-PRESSED SHELBY TUBE
OST-OSTENBURG PISTON SAMPLER
DEN-DENISON CORE BARREL SAMPLER
SPT-STANDARD PENETRATION TEST (ASTN D 1586-84)

GROUND-HATER DEPTH BELOW GRADE AT COMPLETION AFTER HRS. AFTER 24 HRS.

FT.

15 LOVETON CIRCLE

SPARKS, NARYLAND 21152

TELE: 301-771-4950

BURING NO. GNL-3 Coordinates: Geologist: M. ROMANAK Surface Elevation: 504.29 FT. Casing Above Surface: 2.23 FT. Reference Elevation: Reference Description: GROUND

Location: GAITHERSBURG LAUNCH AREA Job No. 10559.03 Client: USATHAMA

Drilling Method: MOBILE 8-61 DRILL RIG,
HSA: 7 7/8 IN. 0.D., 3 3/8 IN. 1.D.
Sampling Method: SPT - 24 IN. LONG. 1 3/8 IN. I.D.
SPLIT SPOON, DRIVEN 18 IN. WITH 140 LB. HAPPER, 30 IN. DROP
Completion Date: 13 APRIL 1989

Start Date: 13 APRIL 1989

| | TYPE | IN Drvn | IN REVD | SAMP NO. | SAMP DPTH | BLDMS/6" | I UVA PPH | IDEPTH IFEET | LOG | SURFACE CONDITIONS SLOPPING GRASSY FIELD, PARTLY CLOUDY HID 50'S |
|---|-------------|------------|------------|-------------|--------------|---------------------|--------------|----------------------------|-----|---|
| - | 9 PT | 18 | 19 | 5 | 21 | 7 -9- 11 | 0 | 20 _ X _ - | ML | SUIL DESCRIPTION LIGHT BROWN (5YR5/6), GREENISH GRAY (5GY6/1), BLACK (N1), S. HOIST, CLAYEY SILT, VERY STIFF, SAPROLITE |
| - | SPT | 18 | 18 | 6 | 26 | 8-7- 11 | 0 | - 25 _ X _ - - | ML. | MOTTLED, GREENISH GRAY (56Y6/1), LIGHT BROWN (5YR5/6) TO BLACK (N1), CLAYEY SILT, MICACEDUS, SCHISTOSE TEXTURE, VERY STIFF, SAPROLITE |
| - | SPT: | 18 | 18 | 7 | 31 | 7-13-20 | 0 | 30 X - - | ML | MOTTLED GREENISH GRAY (56Y6/1), LIGHT BROWN (5YR5/6) S.MOIST, CLAYEY SILT, SOAPY SCHISTOSE TEXTURE, HARD, SAPROLITE INCREASING MOISTURE & BASE OF SPOON |
| - | SPT | 18 | 18 | 8 | 35 | 9-15-26 | 0 | - 35 _ X _ - - | ML | NET SPOON MOTTLED BREENISH GRAY (56Y6/1), LIGHT BROWN (5YR 5/6), BLACK (N1), MOIST, CLAYEY SILT, HARD, SAPROLITE |
| - | | | | | | | | 40 _ | | |

SAMPLER TYPE
SS-DRIVEN SPLIT SPOON
SH-PRESSED SHELBY TUBE
OST-OSTENBURG PISTON SAMPLER
DEN-DENISON CORE BARREL SAMPLER
SPT-STANDARD PENETRATION TEST (ASTM D 1586-84)

GROUND-WATER DEPTH BELOW GRADE AT COMPLETION AFTER HRS. AFTER 24 HRS.

FT. FT. FT.

15 LOVETON CIRCLE

SPARKS, MARYLAND 21152

TELE: 301-771-4950

BURING NO. GNL-3 Coordinates: Beologist: M. ROMANAK
Surface Elevation: 504.29 FT.
Casing Above Surface: 2.23 FT.
Reference Elevation: Reference Description: SROUND

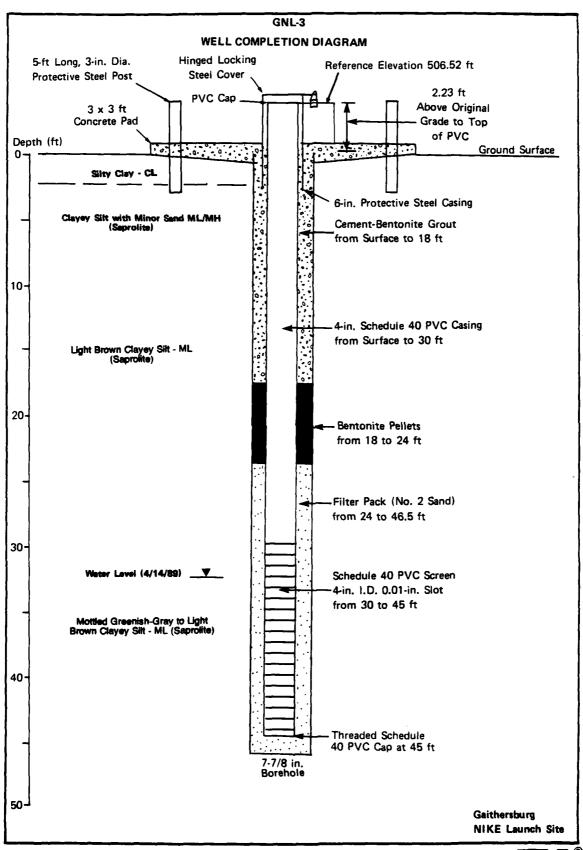
Location: GAITHERSDURG LAUNCH AREA
Job No. 10559.03
Client: USATHAMA
Drilling Method: MOBILE B-61 DRILL RIG.
MSA: 7 7/8 IN. 0.D., 3 3/8 IN. 1.D.
Sampling Method: SPT - 24 IN. LONG, 1 3/8 IN. I.D.
SPLIT SPOON, DRIVEN 18 IN. WITH 140 LB. HAMMER, 30 IN. DROP
Completion Date: 13 APRIL 1989

Start Date: 13 APRIL 1989

| | SAMP TYPE | | | | | | OVA PPM | | CRAPH: | SURFACE CONDITIONS SLOPPING GRASSY FIELD, PARTLY CLOUDY MID 50'S |
|----|--------------|----|----|---|--------|----------|------------------|-----------|--------|---|
| _; | | | | | | | | 40 _ | ;——; | SOIL DESCRIPTION |
| - | SPT | 18 | 18 | 9 | 41 | 11-12-18 | 0 | Χ _ | ML | LIGHT BROWN (5YR5/6), GREENISH GRAY (5GY6/1), BLACK (N1), MOIST, CLAYEY SILT, VERY STIFF, SAPROLITE, MINOR METAMORPHIC ROCK FRAG. |
| - | | | | | ! ! | | ! ! | - | | AUGERS TO 47', PULLED AUGERS, HOLE CAVED TO 46.5', BACKFILL WITH NO.2 SAND TO 45' |
| - | | | | | | | ! ! ! | - | | INSTALLED MONITORING WELL 4-13-89 |
| _ | | | | | | | ; ; ; | 45 _ | | NO. 10 SLOT 4" ID PVC SCREEN 45'-30' (15') 4" PVC RISER CASING 30'-SURFACE (30') |
| _ | | | | | | | ! ! ! | - | | 4 PVC RISER CASING 30'-SURFACE (30') NO.2 SAND PACK 46.5'-24' (22.5') BENTONITE PELLETS 24'-18' (6') |
| - | | | | | | | i ! ! ! | - | | BENTCEMENT GROUT 18'-SURFACE 6" PROTECTIVE SREEL CASING AND LOCKING CAP |
| - | | | | | | | ! ; ! | - 50 | ; | |
| - | | | | | | | ! ! ! ! | | | |
| | | | | | | | [| _ | | |
| - | | 1 | | | | | ! ! ! | - | | |
| - | | | | | | | ! ! ! | - 55 | | |
| _; | | | | | | | ! ! ! | <u> </u> | | |
| - | | | | | | | f 1 1 1 | _ | | |
| - | | | | | | | i ! ! | - | | |
| - | | | | | | | ! ! | - 60 _ | | |
| - | | | | | | | | | | |

SAMPLER TYPE
SS-DRIVEN SPLIT SPOON
SH-PRESSED SHELBY TUBE
OST-OSTENBURG PISTON SAMPLER
DEN-DENISON CORE BARREL SAMPLER
SPT-STANDARD PENETRATION TEST (ASTM D 1586-84)

GROUND-WATER DEPTH BELOW GRADE AT COMPLETION AFTER HRS. AFTER 24 HRS.





LOG OF SOIL BORING

15 LOVETON CIRCLE

SPARKS, MARYLAND 21152

TELE: 301-771-4950

BORING NO. 3NL-4

Coordinates:

Geologist: S. BROWN

Burface Elevation: 464.81 FT.

Casing Above Surface: 2.41 FT.

Reference Elevation:

Reference Description: GROUND

Location: GAITHERSBURG LAUNCH AREA

Job No. 10559.03

Client: USATHAMA

Drilling Method: MOBILE 8-61 DRILL RIG.

HSA: 7 7/8 IN. 0.D., 3 3/8 IN. I.D.

Sampling Method: AC = AUSER CUTTINGS, SOIL SAMPLES COLLECTED FROM

AUGER CUTTINGS DUE TO RIG POSITION

Start Date: 18 APRIL 1989

Completion Date: 18 APRIL 1989

| | TYPE | IN DRVN | IN RCVD | SAMP NO. | SAMP OPTH | BLOWS/6" | PID | DEPTH FEET | CRAPH LOG | FLAT, DRY, GRASSY AREA, DOWN GRADIENT OF FILTER BED |
|-------------|------|--|------------|---------------------------------------|---------------------------------------|----------|-----|------------------|---|--|
| _ - - | AC | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | | 1 | | | 0 | 0 X _ | ML | SOIL DESCRIFTION MODERATE REDDISH BROWN (10R4/6), S. MOIST CLAYEY SILT, MICACEGUS |
| - - - | AC | | | 2 | 6 | | 0 | - 5 X | | MODERATE OLIVE BROWN(SY4/4), MOIST, SILT WITH LITTLE CLAY, MICACEDUS |
| - - | AC. | | | · · · · · · · · · · · · · · · · · · · | | | 0 | 10 <u> </u> | # ML | MODERATE OLIVE BROWN(SY4/4), MGIST, BILT, LITTLE FINE SAND, TRACE CLAY, MICACEOUS |
| - | нC | | | 4 | 16 | | Ů | - 15 <u> </u> | 1 | INCREASING MOISTURE GRAYISH OLIVE (10Y4/2), MOIST, SILT AND V.FINE SAND, TRACE CLAY |
| - | | | | | , , , , , , , , , , , , , , , , , , , | | | - 20 _ | # 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |

SAMPLER TYPE
SS-DRIVEN SPLIT SPOON
SH-PRESSED SHELBY TUBE
DST-DSTENBURG PISTON SAMPLER
DEN-DENISON CORE BARREL SAMPLER
SPT-STANDARD PENETRATION TEST (ASTM D 1586-84)

GROUND-WATER DEPTH BELOW GRADE AT COMPLETION AFTER HRS. AFTER 24 HRS.

FT.

15 LEVETON CIRCLE

SPARKS, MARYLAND 21152

TELE: 301-771-4950

BURING NO. BAL-4 Coordinates: Geologist: S. BROWN Surface Elevation: 464.81 FT. Casing Above Surface: 2.41 FT. Reference Elevation: Reference Description: GROUND

Location: SAITHERSBURG LAUNCH AREA Job No. 10559.03 Client: USATHAMA

Orient: USHTHMUMA

Drilling Method: MOBILE B-61 DRILL RIS.

HSA: 7 7/8 IN. 0.D., 3 3/8 IN. 1.D.

Sampling Method: AC = AUGER CUTTINGS, SOIL SAMPLES COLLECTED FROM AUGER CUTTINGS DUE TO RIG FOSITION

Completion Date: 18 4PRIL 1989

Start Date: 18 APRIL 1989

| | TYPE | IN DRVN | IN RCVD | SAMF NO. | SAMP DPTH | BLOWS/6" | FID PPM | | ERAPH: | SURFACE CONDITIONS FLAT, DRY, GRASSY AREA, DOWN GRADIENT OF FILTER BED |
|----------|------|---------------------------------------|-------------|-------------|--------------|----------|------------------|-------------|---------------------------------------|---|
| _ | | | | | | | | 20 _ | | SOIL DESCRIPTION |
| - | AC | 1 | | 5 | 21 | | 9 | Х _ | ML | OLIVE GRAY (5Y3/2), MOIST, BILT. MINOR ROCK FRAGMENTS, MICACEDUS |
| - | | | | t | | | : ! ! | _ | : : : : : : : : : : : : : : : : : : : | VERY HARD DRILLING @ 20' |
| _ | | i : 1 | 1 | | 1 | | | - - | | INTSALL MONITORING WELL 4-18-89 |
| _ | | | : | | | | ! ! ! | 25 _ | t ; | NO. 10 SLOT 4" ID PVC SCREEN 20'-10' (10') 4" PVC RISER CASING 10'-SURFACE (10') |
| - | | | | | | | | - - | | MO.2 SAND PACK 20'-7.5' (12.5') BENTONITE PELLETS 7.5'-3' (4.5') BENTCEMENT GROUT 3'-SURFACE (3') |
| _ | | | | | ! | | • • • • | : : - | | 6" PROTECTIVE STEEL CASING AND LOCKING CAP |
| - | | : : | 1 | | ; ; ; | | 1 1 | - 30 | | |
| <u> </u> | | | 1 | | | | | ; 30 — | 1 | |
| - | | : : : : : : : : : : : : : : : : : : : | ; ; | | | | | - | , , , , , , , , , , , , , , , , , , , | |
| - | | | : : : | | | : | | - | f | |
| _ | | | 1 | | | | | - 35 _ | · · · · · · · · · · · · · · · · · · · | |
| - | | | 1 1 1 | | | | | - | ! ; ! ; ! ; | |
| - | | | | | | | ! ! ! | _ | : ; ! ! ! ; | |
| - | | ? | | | | | ! ! ! | _ | | |
| - | | | | | | | | 40 — | | |

SAMPLER TYPE

85-DRIVEN SELIT SPOCH

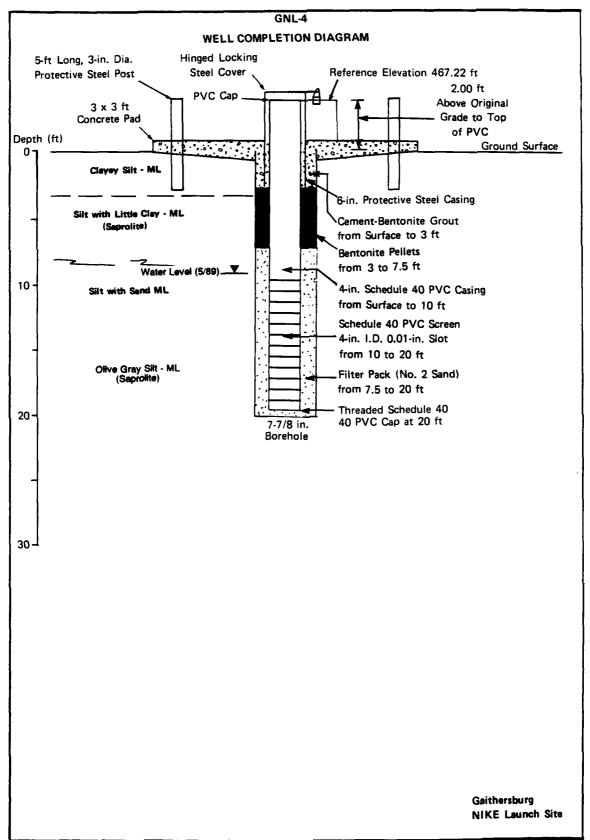
84-PFESSED SHELBY TUBE

05T-OSTENBURG PISTON SAMPLER

DEN-CENISON CORE BARREL SAMPLER

8FT-STANDARD FENETRATION TEST (ASTM D 1586-84

GFOUND-WATER DEPTH BELOW GRADE AT COMPLETION
AFTER H
AFTER 2 HRS. 24 HRS.



LOG OF SOIL BORING

15 LOVETON CIRCLE

SPARKS, MARYLAND 21152

TELE: 301-771-4950

BORING NO. GNC-5

Coordinates:

Geologist: M. ROMANAK

Surface Elevation: 520.82 FT.

Casing Above Surface: 1.93 FT.

Reference Elevation:

Reference Description: GROUND

Location: GAITHERSBURG CONTROL AREA

Job No. 10559.03

Client: USATHAMA

Drilling Method: MOBILE 8-61 DRILL RIG,

HSA: 7 7/8 IN. 0.D., 3 3/8 IN. I.D.

Sampling Method: SPT - 24 IN. LONG, 1 3/8 IN. I.D.

SPLIT SPOON, DRIVEN 18 IN. WITH 140 LB. HAMMER, 30 IN. DROP

Start Date: 10 APRIL 1989

Completion Date: 10 APRIL 1989

| | SAMP | | | | | | PID | | GRAPH: | SURFACE CONDITIONS LEVEL GRASSY FIELD, CLOUDY, MID 40'S |
|---|------|----|------------------|----|------------------|---------------------|-----------------------------|-----------|---------------------------------------|--|
| - | | | | — | - | | | | | SOIL DESCRIPTION |
| | SPT | 18 | 10 | 1 | 1 | 3-4-5 | 0 | X - | CL : | MODERATE BROWN (5YR4/4), S. MOIST SILTY CLAY, MEDIUM STIFF |
| - | | | 1 | | [| | ! ! ! ! | - | [| |
| - | SPT | 10 | 16 | 2 | | 1. 7. L | | 5 _ | SM | MODERATE PERDICUL PROGRAM (1004/(1) PRV CILITY FIRST CAMP MEDIUM |
| - | JF! | 10 | 10 | ۷. | . 6 | 6-7-6 | 0 | X - | i 3/17 i | MODERATE REDDISH BROWN (10R4/6), DRY, SILTY FINE SAND, MEDIUM DENSE, MICACEOUS |
| - | | | ! ! ! | | | | | - | | |
| _ | | | 1 1 1 1 | | ! ! ! ! | | 1 1 1 1 | 10 _ | | |
| - | SPT | 18 | 11 | 3 | 11 | 6 -8 -12 | 0 | X - | HL : | MOTTLED MODERATE YELLOWISH BROWN (10YR5/4) TO LIGHT BROWN (5YR5/6) S.MOIST, SANDY SILT WITH LITTLE CLAY, SDAPY SCHISTOSE TEXTURE, MICACEDUS, MEDIUM DENSE, SAPROLITE |
| - | | | | | | | | _ | ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; | |
| _ | | | ; ; ; ; | |) | | | - 15 _ | ; ; ; ; ; ; ; ; | |
| - | SPT | 18 | 14 | 4 | 16 | 7 -9- 11 | 0 | Х _ | ML. | MOTTLED LIGHT BROWN (5YR 5/6) TO GREENISH GRAY (5GY6/1), S. MOIST, CLAYEY SILT WITH TRACE SAND, VERY STIFF, SCHISTOSE TEXTURE, SAPROLITE |
| - | | | ; ; ; | | | | | - | | W |
| | | | 1 | | | | | - 20 _ | | |
| : | | | _ | | | | | | | |

SAMPLER TYPE
SS-DRIVEN SPLIT SPOON
SH-PRESSED SHELBY TUBE
OST-OSTENBURG PISTON SAMPLER
DEN-DENISON CORE BARREL SAMPLER
SPT-STANDARD PENETRATION TEST (ASTM D 1586-84)

GROUND-WATER DEPTH BELOW GRADE AT COMPLETION AFTER HRS. AFTER 24 HRS.

FT.

15 LOVETON CIRCLE

SPARKS, MARYLAND 21152

TELE: 301-771-4950

BURING NO. ENC-5 Coordinates: Geologist: M. ROMANAK Surface Elevation: 520.82 FT. Casing Above Surface: 1.93 FT. Reference Elevation: Reference Description: GROUND

Location: GAITHERSBURG CONTROL AREA Job No. 10559.03 Client: USATHAMA

Drilling Method: MOBILE B-61 DRILL RIG,
HSA: 7 7/8 IN. O.D., 3 3/8 IN. I.D.
Sampling Method: SPT - 24 IN. LONG, 1 3/8 IN. I.D.
SPLIT SPOON, DRIVEN 18 IN. WITH 140 LB. HAMMER, 30 IN. DROP

Start Date: 10 APRIL 1989

Completion Date: 10 APRIL 1989

| | SAMP | | | | | | PID PPM | IDEPTH IFEET | GRAPH: | |
|--------|-------------|---|-------------|-----------------------|---------|----------|---|------------------|--------|---|
| _ | | - | - | <u></u> | <u></u> | | | 20 _ | | SOIL DESCRIPTION |
| - | SPT | 18 | 9 | 5 | 21 | 8-11-16 | 0 | X - | ML : | MOTTELED MODERATE YELLOWISH BROWN (10YR4/4) TO GREENISH GRAY (5GY6/1 S. MOIST, CLAYEY SILT, VERY STIFF, MICACEDUS, SAPROLITE |
| - | SPT . | 18 | 12 | 6 | 26 | 4-10-16 | 0 | - 25 _ X _ | | MOTTLED MODERATE BROWN (5YR4/4) TO GREENISH GREY (5GY6/1), S. MOIST CLAYEY SILT WITH LITTLE FINE SAND, VERY STIFF, MICACEDUS, MINOR ROCK FRAGMENTS, SAPROLITE |
| - - | | 1 1 4 5 5 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | 1 1 1 | ; ; ; ; ; | 1 | | e 4 5 5 6 6 7 7 7 7 7 | - | | MINOR ROCK FRAGMENTS, SAPROLITE |
| - | 9 PT | 18 | 10 | 7 | 31 | 3-12-22 | 0 | 30 <u> </u> | ML. | S. MOIST SAPROLITE, SAME @ ABOVE |
| - | | | | | | | | - - 35 _ | 1 | |
| - | SPT | 11 | 19 | 8 | 36 | 21-51/5* |) | X – | ML . | MOTTLED GRAYISH GRANGE (10YR7/4) TO GREENISH GRAY (56Y6/1), S. MOIST, CLAYEY SILT WITH TRACE SAND, HARD, SCHISTOSE TEXTURE, MICACEDUS. MINOR PHYLLITE ROCK FRAGMENTS, SAPROLITE |
| | | | | | | | | 40 | | |

SAMPLER TYPE
SS-DRIVEN SPLIT SPOON
SH-PRESSED SHELBY TUBE
OST-OSTENBURG PISTON SAMPLER
DEN-DENISON CORE BARREL SAMPLER SPT-STANDARD PENETRATION TEST (ASTM D 1586-84)

GROUND-WATER DEPTH BELOW GRADE AT COMPLETION AFTER HRS. AFTER 24 HRS.

LOG OF SOIL BORING

15 LOVETON CIRCLE

SPARKS, MARYLAND 21152

TELE: 301-771-4950

BURING NO. SNC-5 Coordinates: Geologist: M. ROMANAK Surface Elevation: 520.82 FT. Casing Above Surface: 1.93 FT. Reference Elevation:

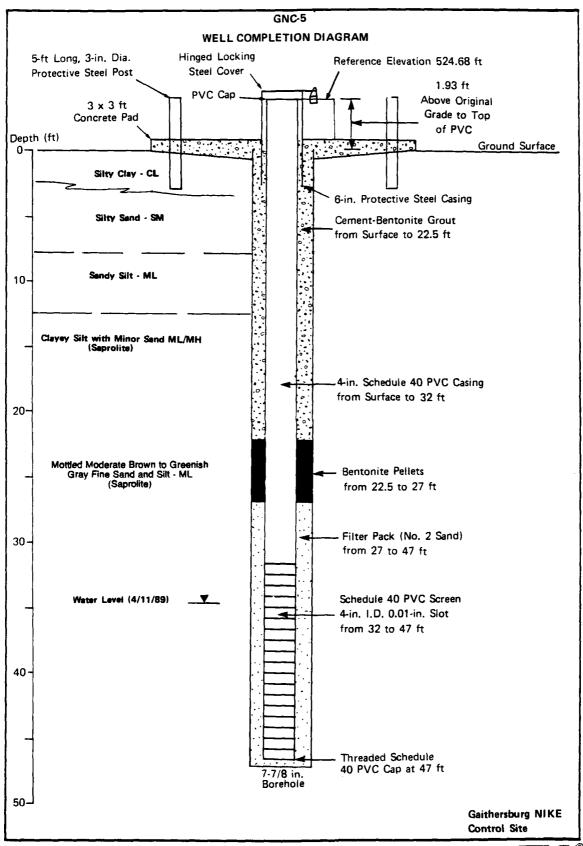
Reference Description: GROUND

Start Date: 10 APRIL 1989

| :5 :T | AMP YPE | IN DRVN | IN RCVD | SAMP NO. | SAMP | BLOWS/6" | PID | | ERAPH: | SURFACE CONDITIONS LEVEL GRASSY FIELD, CLOUDY, MID 40'S |
|----------|---------------------------------------|------------|------------|-------------|------|----------|-----|-------------------|--------|---|
| | SPT | 18 | 16 | 9 | 41 | 16-26-38 | 0 | 40 _ X _ | ML. | MOTTELED MODERATE YELLOWISH BROWN (10YR4/4), GREENISH GRAY (5GY6/1) TO BLACK (N1), S. MOIST, CLAYEY SILT, HARD, MINOR ROCK FRAGS., MICACEOUS, SAPROLITE, SPOON WET @ 41 |
| | SPT | 18 | 18 | 10 | 46 | 44-34-50 | 0 | 45 X - | SM | MOTTLED GRAYISH ORANGE (10YR7/4) TO GREENISH GREY (56Y6/1), MOIST, SILTY SAND WITH LITTLE CLAY, VERY DENSE, MICACEOUS ROCK FRAGMENTS, SAPROLITE |
| | SPT | 18 | 18 | 11 | 51 | 20-30-38 | 0 | 50 X _ | | GRAYISH ORANGE (10YR7/4), MOIST, CLAYEY SILT WITH LITTLE SAND HARD, METAMORPHIC ROCK FRAGMENTS, MICACEDUS AUGERS TO 50', PULLED AUGERS, HOLE CAVED TO 47' |
| | | | | | | | | - 55 - - | | INSTALLED MONITORING WELL 4-10-89 NO.10 SLOT 4" PVC SCREEN 47'-32' (15') 4" ID PVC RISER CASING 32'-SURFACE (32') NO.2 SAND PACK 47'-27' (20') BENTONITE PELLETS 27'-22.5' (4.5') BENTCEMENT GROUT 22.5'-SURFACE (22.5') 6" ID PROTECTIVE STEEL CASING AND LOCKING CAP |
| -: | , , , , , , , , , , , , , , , , , , , | | | | | | | 60 _ | | |

SAMPLER TYPE
SS-DRIVEN SPLIT SPOON
SH-PRESSED SHELBY TUBE
OST-OSTENBURG PISTON SAMPLER
DEN-DENISON CORE BARREL SAMPLER SPT-STANDARD PENETRATION TEST (ASTM D 1586-84)

GROUND-WATER DEPTH BELOW GRADE AT COMPLETION AFTER HRS. AFTER 24 HRS.





LOG OF SOIL BORING

15 LOVETON CIRCLE

SFARKS. MARYLAND 2:152

TELE: 301-771-4950

BORING NG. BMC-6

Coordinates:

Seologist: 8. BROWN

Sunface Elevation: 517.45 FT.

Casing Apove Surface: 2.17 FT.

Reference Elevation:

Reference Description: ERGUND

Location: GAITHEFEBURG CONTROL AREA

Jem No. 10559.03

Client: USATHAMA

Orilling Method: MOBILE 8-61 DRILL RIG.

HSA: 7 7 8 IN. D.D. 3 7/8 IN. I.D.

Sampling Method: EFT - IA IN. LONG, 1 3/8 IN. I.D.

SFLIT SPOON, DRIVEN 18 IN. WITH 140 LB. HOMMER, 30 IN. SACP

Start Date: 17 APRIL 1989

Completion Date: 17 AFRIL 1999

| LANCE ECME | IN DFVA | -557.0 | SHAP NO. | ISAMP ISPTH | BIEW5/6" | gra Mag | LEFTH LEET | ERAFH! | SUFFACE CENDITIONS GRASSY AREA DOWNSRADIENT OF UST, DRY WELL, ENGINE SEN. BLDG. |
|-------------------------------|------------------|------------------|---------------|----------------|----------|------------|---------------|--------|--|
| | | : | ! | | : | 1 | ; 0 _ | - | SOIL DESCRIPTION |
| 3=7 | : 18 | 7 | : 4 4 : | | 2-3-5 |) | , y – | 1 | MODERATE BROWN (EVR4/4). S. MOIST. SILT. MEDIUM STIFF, MICACEDUS |
| -: ²⁵⁷ | : : : : | 19 | | 9 | 77-8-8 | | 5 - | ~L~EM | BARK YELLEWISH SPANSE (10/RE/E), S. MOIST, SILT AND V.F. SAMO, COURSE |
| - - - - -' | 13 | 18 | | 11 | 7-4-5 | | 10 _ | 規~34 | DAFK YELLSWIEH GRANGE (10856/6), 3. MOIST, SILT AND V.F. SAND, LOUSE |
| - 2557 - 1 | 03 | : : : : | 4 | 14 | | | 15 _ 15 | M | MODERATE VELLOW BROWN (10VRS:4). S. MOIST, SILT WITH TRACE V.F. SAND, MICACEGUS, MEDIUM DENSE, SMALL ROCK FRAGMENTS, SAFROLITE |
| - | | | | | | : | 20 _ | | |

SAMELER TYPE SE-DETIVEN SPLIT SEGON SH-PRESED SHELBY TUBE SET-DETENBURG FISTON SAMPLER DEN-DENISON JORE BARFEL SAMPLER SET-SEANCARD REVETATION TEST 45TM D (1886-84) OFFICIND-WATER DEFTH BELOW SPADE AT TOMFLETION AFTER HF3. AFTEF 24 AFS.

2.T

SFARKS, PARYLAND 20152 IS LOVETON DIRECTE [28년] [10] 구개 구 5점 Location: GAITHERSBURG CONTROL AREA
Job No. 10559.03
Client: USATHAMA
J-111na Method: MOBILE B-61 DPILL FIB.
FSA: 7.78 IN. J.D. J. J.Z. (N. 1.5.
Sampling Method: SFT - 24 IN. LONG. 1 378 IN. 1.3.
SHLIT SPOON, OPIVEN 18 IN. WITH 140 LB. HOMMER. 30 IN. PROS
Completion Date: 17 APRIL 1989 ECF. NE. 180. 3NC-5 btham Mul amuto Condinates: Condinates: B. BROWN Conface Clevation: 517,45 FT. Casing Above Sunfece: 2.77 FT. Reference Clevation: GROUND Reference Ceschiption: GROUND

Start Date: 17 APPIL 1999

| |]9.]9. 1 | 24 70.5 | ₩. ₩. | , State State | BLE#8/6" | FID | SEET | LOG | EDAFACE CONDITIONS BRASSY AFEA DOWNSFADIENT OF UST. DRY WELL, ENSINE BEN. BLDG. |
|-------------|----------------|------------|----------|------------------|----------|---------------------------------------|---------------|--------------|--|
| | | | | | | : | | | BOIL DESCRIPTION |
| SFT. | 13 | 18 | 5 | | 10-13-17 | i e | · - | ML | LIGHT DRANGE PROWN (SYFE/6), S. MOIST, SILT. HAFD, MICACESUS |
| er- | 18 | . 19 | | | ₩-40-25 | | : - : 25 _ | - ML | IGHT_BROWN (5YR5:4), 8. MOIST, BILT, HARD, BIHIBTOSE TEXTURE, |
| er | .5 | 13 | | _ <u></u> | | · · · · · · · · · · · · · · · · · · · | · | : ITL | EAFROLITE |
| | | • | | | , | : | 70 _ | - | |
| <u>:</u> F7 | 13 | :8 | - | : 71 | 7-12-22 | į į | - | M | DARK KELLOWISH CRANGE (1895) 61. MOIST, SILT, HARD, SAFFOLITE |
| | | | | | | | - | | COMPOSITE S-7 AUD S-8 FOR CHEMICAL ANALYSIS |
| - | . , | | | | | 1 | | | 4ET 550M |
|]F* | 1 . | . 5 | . 2 | 15 | 8-12-15 | i Q | - | , M <u>I</u> | DARK VELLOWISH GRANGE (18YR5/5). MOIST, SILT, VERY STIFF, SAFROLITE |
| , | | | | | | • • • • • • • • • • • • • • • • • • • | 40 | | |

SAMPLER TYPE

SS-DRIVEN SFLIT SFOON

SH-PRESSED SHELBY TURE

DST-CSTEMBURG FISTOM SAMPLER

DEN-DENISOM DORE BARREL SAMPLER

SET-STANDARD REMETRATION TEST ASTM D 1586-544

ERCUND-WATER DEFTH BELOW GRACE AT COMPLETION AFTER FRS. AFTER 14 FRS.

1991 30F-71F1930 IF LEVERON LINGLE SHAFES. MARKEAND ZIISZ SURING NO. SMC-6 Coordinates: Geologist: S. BROWN Surface Elevation: 517.45 FT. Casing Apove Surface: 2.TT FT. Reference Elevation: Tologoogn Reservation: FERINI Location: GAITHERSBURG CONTROL AREA
Job Mo. 10559.03
Client: USATHAMA
Drilling Method: MOBILE B-61 DRILL RIG.
RSM: 7 7/3 IN. G.D. T T/8 IN. I.J.
Sampling Method: SFT - 24 IN. LCRS. 1 3/5 IN. I.D.
SFLIT SPCON. DRIVEN 18 IN. WITH 140 LB. HAMMER. TO IN. DROF
Completion Date: 17 APRIL 1989

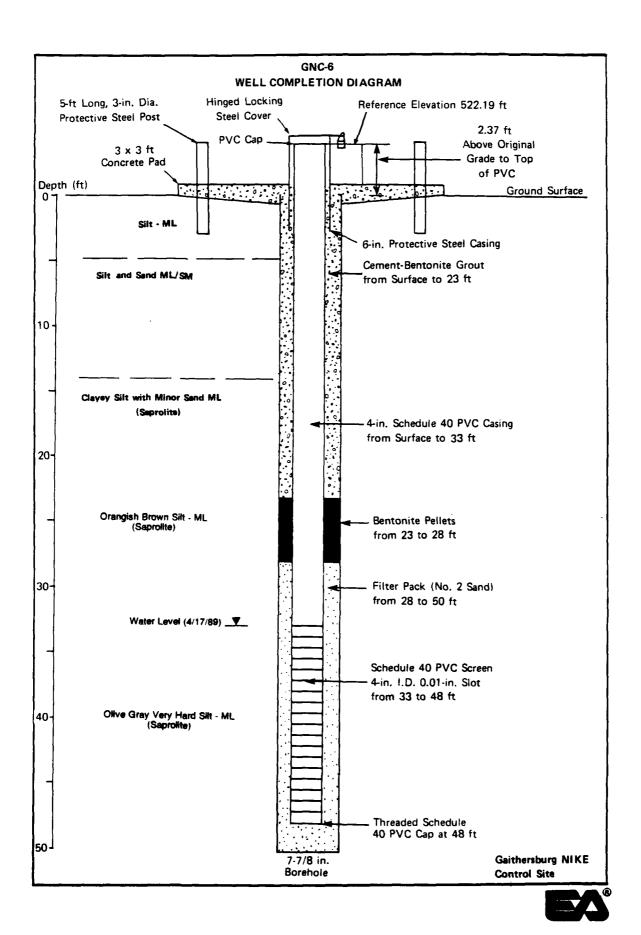
Reference Description: GROUND

Stant Date: 17 AFFIL 1989

| | | EF.N | . FC. 0 | :35E 'V3. | 1948 1387H | SULME / 6ª | PID FFM | LETH FET | CEPAPH: | SURFACE CONDITIONS BRASSY AREA COWNGRADIENT OF UST, DRY WELL. ENSITE GEN. BLIG. |
|-------------|---------------|--------|---------|--------------|---------------------------------------|---------------------------------------|---|-------------|---------|--|
| _ | | | : | | ; | : | 1 | 40 _ | j ; | SOIL DESCRIPTION |
| - | . ge ⊤ | . 13 | 5 | 2 | Δ () | ,5175" - - | 0 | - | Mi | LIBHT GLIVE GRAY (5Y5/2), MOIST, SILT, HARD, MICHEEDUS |
| - | | • | | | * * * * * * * * * * * * * * * * * * * | · · · · · · · · · · · · · · · · · · · | 1 1 1 1 | - 45 _ | | |
| - | ₹T | ::3 | 5 | 10 | 45 | 51/6" | 0 | - - | HL ! | DAFK OLIVE GRAY (575/2). MOIST, BILT, HARD, MICACEDUS. SAPPOLITE AUGERS ID 50 FT. |
| - | | | | | | 1 | ! | - | 1 | INSTALLED MONITORING WELL 4-17-57 |
| - - - | | • | | | • | | | 50 | | NO. 10 SUST 4" ID PVC SCREEN ABIHTS (15) 44 PVC RISER CASING TO HEUREPCE (T3) NO.2 BAND PACK BOIHEB (ZCI) BENTONITE PELLETS IS HIT (T3) BENT HISMENT BROOT IT HEURPACE (CT) BI PROTECTIVE STEEL CASING AME LOTRING CAR |
| _ | | | | | | • | · · · · · · · · · · · · · · · · · · · | | - | |
| - | | 3 | | | 1 | | 1 · · · · · · · · · · · · · · · · · · · | - | 1 | |
| | : | * * | | | | · · · · · · · · · · · · · · · · · · · | • | ; = 0 ~ | - | |

SAMPLER TYPE
SS-DRIVEN SPLIT SPOON
SH-FRESSED SHELBY TUBE
DST-OSTENBURG FISTON SAMPLER
DEN-DENISON SOFE SARREL SAMPLER
SFT-STANDARD FENETRATION TEST (ASTM D 1556-94)

GROUND-WATER DEPTH BELOW GRADE AT COMPLETION AFTER HES. AFTER 24 HES.



IS LEVETON CIPCLS

SPAFKS, MARKLAND Z1052

TELE: 191-771-4950

PORING NO. GNO-T

Coordinates:

Seciogist: M. RCMANAK

Burface Elevation: 486.08 FT.

Casing Above Burface: 1.02 F7.

Reference Elevation:

Reference Description: GROUND

Location: GAITHERSBURG CONTROL AREA

Job No. 10559.03

Client: UEATHAMA

Drilling Method: MOBILE 5-61 DRILL RIG.

HSA: 7 7/8 IN. O.D., 3 3/3 IN. I.D.

Sampling Method: SP7 - 24 IM. LONG. 1 D/G IN. I.D.

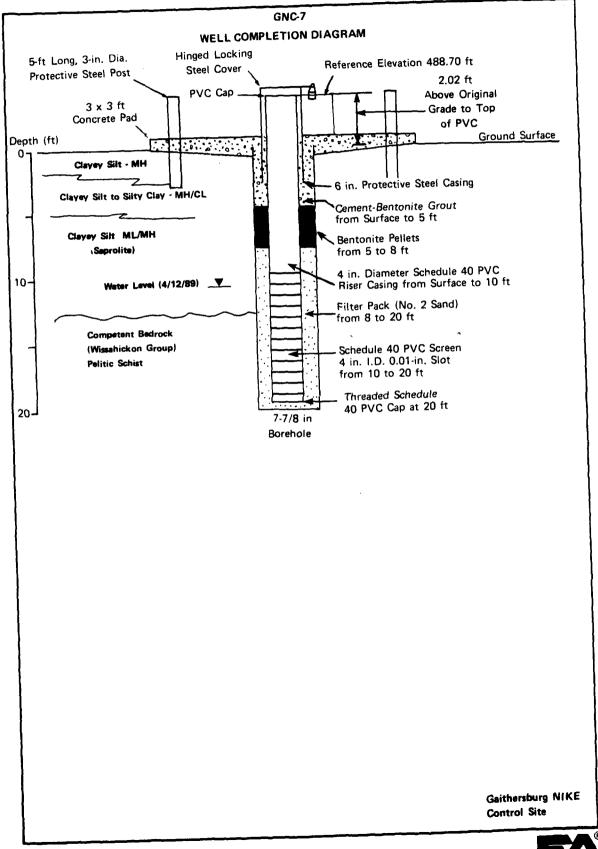
SPLIT SPOON, DRIVEN IS IN. WITH 140 LB. HAMMER, 30 IN. DROP

Stant Date: 11 AFRIL 1989

Completion Date: 14 AFRIL 1989

| 7.52 | jevy | - 18 - 70 v 2 | 15A5F 140. | STAL STAL | BLOWS/s1 | | FEET | LOG I | SUMPACE CONDITIONS LEVEL BRASSY FIELS, SUMMY HISH 50'S |
|-----------------------------|-------------------|------------------|---------------|--------------|----------------------------------|------------------|-------------------------|---------------------------|---|
| | | , | . —— | : | | - | ; | | SUIL DESCRIPTION |
| _ 3£~ | 13 | . 13 | * <u>*</u> | : 1 | : : 10=10 -6 : : |) } | · - | МН | MODEFATE BROWN (SYR4/4). B. MCIST. CLAYEY BILT. MITPOEGUS BOME GRAVEL & TOP. NERY STIFF |
| - | | · | | | | 1 2 3 1 | 5 | | |
| _ _ 3f [~] _ | 15 | : : :ē | | . 5 | .1-1-2 | <u> </u> | | : : MH : | MODERATE BROWN (5/F4/4), S.MOIST, CLAYEN BILT TO BILTY CLAY, SOFT, MICACEDUS, MINER RECK FROMMENTS |
| - - | • | | | • | | | - - | | |
| _ | · · · <u>-</u> | | _ | | | : | 10 <u>-</u> | | |
| _ | 18 | . 13 | | . i | 15-31-31 - | | . : - - | ¥ <u>_</u> -¥ <u>+</u> i, | METTLED GREENISH GRAF (SEED IN BLAIN DAINLIGHT GREAN EYREIG) B.MEIGT, BILTH FORE BAYD WITH LITTLE CLAR, BOARM BOHISTOSE TEXTURE, MICAGEOUS, HARE, BARRIEITE |
| - | | | | | | | - - | | |
| _ | | | | | | | : :5 - | -: | COMPETENT BEDAGGY (PELITES SCHIST) |
| - ^{:=} * | | | | | 5: 0 | | <u>-</u> - | | NO SAMPLE FECCHEFED. AUGER REFUSAL & 15 . OFFSET HOLE :01. AUGER REFUSAL & 10 . CHANGE TO LARGER AUGERS HEA: TITHS" IS. 10" BD. LARGE AUGERS TO 15 . LEAVE IN HOLE AND INAMEE TO FOLLER BIT. FOLLER BIT TO IX |
| - - | | | | | | | : - - - - - | | INSTALL MONITORING WELL 4-14-99 MO. 10 BLOT AT ID RECESSED ID THE MEDITOR AT REC RIBER CASING LOT-BURRACE MEDITOR MOLD SAME RACE ID TO HE ID TO EDRITORITE RELIETS SONS OF SONS OF SHORE STEEL CARING _BENT,-CEMENT BROUT ST-BURRACE MEDITORING STEEL CARING |

SAMPLER TYPE SB-DFILEN SPLIT SFOON SH-PRESSED SHELBY TUBE DBT-DSTENBURG FISTON SAMPLER DB HOENISON DORE BAFFEL SAMPLER SFT-BTANDARD RENETRATION TEST ABOM D 1586-84) SROUND-WATER DEPTH BELOW GRADE AT COMPLETION AFTER 148. AFTER 24 HRS.





LOG OF SOIL BORING

IS LOVETON DIRCLE

SPARNS, MARYLAND 21152

TELE: 301-771-4950

BORING NO. SNC-8

Cordinates:

Geologist: M. ROMANAK

Surface Elevation: 501.49 FT.

Casing Above Surface: 2.35 FT.

Reference Elevation:

Reference Description: 350UND

Location: GAITHERSBURG CONTROL AREA

Job No. 10559.03

Client: USATHAMA

Drilling Method: MOBILE 8-61 DRILL RIG.

HSA: 7 7/8 IN. O.D., 3 3/8 IN. I.D.

Sampling Method: SPT - 24 IN. LONG. 1 3/8 IN. I.D.

SPLIT SPOON, DRIVEN IS IN. WITH 140 LB. HAMMER, DO IN. ISSP

Stant Date: 11 AFFIL 1987

Completion Date: 11 APRIL 1989

| | , <u>547</u> F 77FE | IN JERVN | :N =01.0 | .EHM . NO. | SHIP Jett | ELC#8/6 | FFM | FEET | JERAFH! LEG | SUFFACE CONDITIONS SLIGHTLY SLOFING GRASS FIELD. SLAWY LOW 5715 |
|---|------------------------|-------------|-------------|--------------------------|--------------|---------------|---------------|---------------------------------------|--|---|
| | | | | . — | · —— | . | ; | , 9_ | | BOIL DEBUSIA FIEN |
| - | 35T | . 13 | 17 | | • | 1-3-6 | | - | MH | MODEFATE BROWN (SYR4/4), S. MOIST CLAYEV SILT. MEDILM STIFF. MINOR MICA |
| - | 3F~ | ; :s ; : | : 19 | 2 | 5 | 3-3-6 | . 0 | 5 | * ************************************ | MOTTLED, LIGHT BROWN (EYRS/A) TO BLACK (NI), S.MOIST, CLA/EY SILT WITH FIME BAND, MIRACEDUS, MEDIUM STIFF BAPROLITE |
| _ | | | | | : | 1 1 1 | : | 16 _ | 1 | |
| - | ∃F† | 13 | 13 | 3 | | .5-12-10 : |) | · · · · · · · · · · · · · · · · · · · | 4 | MOTTLED GREENISH GRAY (53YE/1), BLACK (NI'.LIGHT SFOWN (5YES 5) B.MOIST. CLAYEV BILT WOTH LITTLE FINE SAND, BOAFY BOHISTOSE TEYTURE, MICAGECUS, LERY STIFF, BARRSUITE |
| - | | | | | | | ٠ | - | | |
| | <u> </u> | :8 | :5 | · <u>:</u> | · 16 | ":"-3746A | | : :5 _ | -! | MOTTLED MEDEFATE YELLOW BROWN (10YR5/4), LIGHT BROWN (SYR 5/4), |
| - | • | | • • | - | : | | | | | MOIST, SLAVEY FINE SAND WITH SILT, MICACEDUS, HARD |
| _ | | | | ı r | ! | | | - 30 _ | -! | |
| | | | | | | | · | <i>:</i> | | |

SAMPLER TYPE SS-DRIVEN SPLIT SPOON SH-FRESSED SHELBY TUBE OST-DSTENBURG FISTON SAMPLER OSY-DENTSON SOPE SAFREL SAMPLER SAT-STANDARD REWETRATION TEST VASTM D 1584-84/

GEGUND-WATER DEPTH BELOW GRADS OF COMPLETION HETER HER. AFTER 24 HES.

ECRIENT SIRGLE SPANS. MARYLAND 21151

BURING MD. SWIPS

Continuous:

C

| | FUEE TVEE | IN IF A | IN SCVD | EAYP NO. | EFTH DFTH | FLU#5/6" | | CEFTH FEET | CEAFH LOG | SURFACE CONDITIONS SLIGHTLY SLEPING GRASS FIELD, SUMMY LOW 50/3 |
|----------|----------------|------------|------------|-------------|-------------------|---|---------------------------------------|-----------------------|--------------|--|
| | | | | : | : | ; 1 | | 20 _ | | SOIC DESCRIPTION |
| _ | : EFT | . 18 | 18 | | : 21 | : 12-12-30 | : | | XI | MODERATE BROWN (SYRA/A) TO GREENISH BRAY (SSYA/I). B. MOIST. CLAYEY BILT WITH LITTLE SAND, HARD. MICACEDUS, BAFFOLITE |
| - - | SFT | 12 | 19 | | : : : Iá | 12-27-17 | | 25 | мĮ | MOTTLED, LIGHT SFOWN (SYRS/6) TO GREENISH GRAY (S6Y6/1). MOIST, CLAYEY SILT WITH FINE BAND, MICACEGUS, HAFD, BAFFCLITE |
| - - | 201 | | | | 757 | : : : : : = : : : : : : : : : : : : : : | | - - - - - | 41 | LIGHT BEDWN (SYES/6). MOIST, CLAYEV SILT WITH FINE SAND, HARD |
| - | ੁਵਾ' : : | | | | * = 121 * * | . 417 4 ! ! ! | | · - | . "" | MIGACECUS, BAFFGLITE |
| - | | | , | | : | | | - : : | | AUGERS TO 021 -REFUSALA, RULLED AUGERS, HOLE DAVES TO 01 INSTALLED MONITORING WELL 4-11-89 |
| - | | | | | • | | | 75 _ | | MG. 1) ELGT 4" ID PVC SIREEN 301-15" (15") 43 ID PVC RISER CASING 15"-EURFACE (15") MD.2 BAND FACK DI -10" (21" BENTONITE FELLETS 10"-5" (4") BENTCEMENT GROUT 6"-BURFACE (6") B' PPCTECTIVE STEEL CASING AND LOCKING CAP |
| <u>-</u> | | | | | | · · | • • • • • • • • • • • • • • • • • • • | - 40 _ | | |

SAMPLER TYPE

BB-DRIVEN SPLIT BPCON

SH-FRESSO BHELSY TUBE

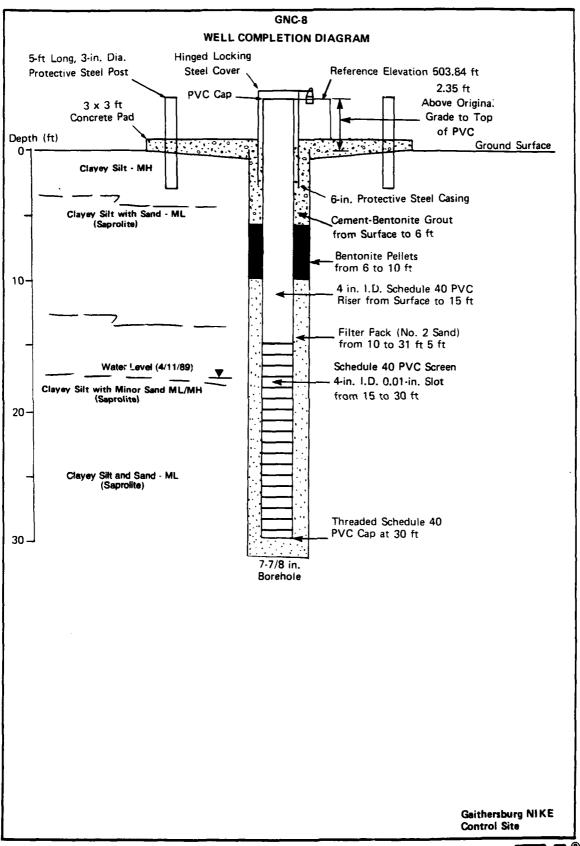
DET-DETENBURG PISTON BAMPLER

DEX-DENISON CORE BAFREL BAMPLER

BET-STANDARD FENETRATION TEST (ASTM D 1584-84)

SECUND-WATER DEFTH BELOW SEADE AT COMPLETION AFTER HFS. 4FTER 24 FS.

FT.





APPENDIX B
FIELD SAMPLING RECORDS



| Site: 64 THERSURE NIKE LAINCH SITE |
|---|
| Well No: Gauge Date: |
| Weather: Sunny, Low 70's |
| Well Condition: 6000 |
| · |
| Well Diameter (inches): 4- |
| Odor (describe): Non E |
| Sounding Method: W.L.T. Measurement Reference: TIPVC |
| Stick dp/down (ft): |
| (1) Well Depth (ft): 46.4 Purge Date: 5-25-84 Time: 13:50 |
| (2) Depth to Liquid (ft): Purge Method: 4° Sub pump |
| (3) Depth to Water (ft): 31.5 Purge Rate (gpm): 1.8 |
| (4) Liquid Depth [(1)-(2)]: 14.9 Purge Time (min): 43 |
| (5) Liquid Volume [(4)xF] (gal): Purge Volume (gal): |
| Did Well Pump Dry? Describe: 45 progeo 6 59pm |
| for 5 min well purged dry. Total purged 77+25 = 102 pl |
| Samplers: |
| Sampling Date: <u>5-25-89</u> Time: <u>1206</u> |
| Sample Type: Split? With Whom: |
| Comments and Observations: |
| Temp 15°C SC = 90 pH = 5.70 |
| |



| Site: <u>BAITHERS BURG NIKE LAUNCH SITE</u> |
|--|
| Well No: 6NL-Z Gauge Date: 5-25-89 Time: |
| Weather: SUNNY |
| Well Condition: 6000 |
| |
| Well Diameter (inches): 4= |
| Odor (describe): NowE |
| Sounding Method: W.L. I. Measurement Reference: T/Pvc |
| Stick up/down (ft): |
| (1) Well Depth (ft): 37.9 Purge Date: 5-25-89 Time: |
| (2) Depth to Liquid (ft): Purge Method: Funf |
| (3) Depth to Water (ft): 23.05 Purge Rate (gpm): See below |
| (4) Liquid Depth [(1)-(2)]: 14.85 Purge Time (min): 20.5 |
| (5) Liquid Volume [(4)xF] (gal): Purge Volume (gal): 68.5 |
| Did Well Pump Dry? Describe: 8.5 2 0 0 59 pm = 42.5 941. |
| 4min. @ 2.5 gpm = 10gal., 8min. @ 2gpm = 16 gal. |
| Samplers: |
| Sampling Date: 5-25-89 Time: 1743 |
| Sample Type: Split? With Whom: |
| Comments and Observations: |
| Temp. = 15°C, SC = 45, DH = 5.25 |
| |



| Site: GAITHERSBURG NIKE LAUNCH SITE |
|---|
| Well No: Gauge Date: Time: |
| Weather: Sunny |
| Well Condition: 6000 |
| Well Diameter (inches): 4 |
| Odor (describe): NONE |
| Sounding Method: W.L.I. Measurement Reference: T/PVC |
| Stick up/down (ft): |
| (19 Well Depth (ft): 46.6 Purge Date: 5-25-99 Time: |
| (2) Depth to Liquid (ft): Purge Method: 4- 515.pump |
| (3) Depth to Water (ft): 31.73 Purge Rate (gpm): See beite. |
| (4) Liquid Depth [(1)-(2)]: 14.87 Purge Time (min): 30. |
| (5) Liquid Volume [(4)xF] (gal): Purge Volume (gal): £7.5 |
| Did Well Pump Dry? Describe: 5 nin @ 5 gpm = 25 ggl. |
| well purged in 25 min & 2.5 apm : 62.5 gal |
| Samplers: |
| Sampling Date: |
| Sample Type: Split? With Whom: |
| Comments and Observations: |
| $T = 18^{\circ}C$, $SC = 60$, $pH = 5.34$ |
| |



| Site: 6AITHERS BURG NIKE LAUNCH SITE |
|---|
| Well No: 6NL-4 Gauge Date: 5-25-89 Time: |
| Weather: |
| Well Condition: 6000 |
| Well Diameter (inches): |
| Odor (describe): NonE |
| Sounding Method: W.L. I. Measurement Reference: T/PUC |
| Stick up/down (ft): |
| (1) Well Depth (ft): 21.9 Purge Date: 5.25-89 Time: |
| (2) Depth to Liquid (ft): Purge Method: 4-516. pump |
| (3) Depth to Water (ft): 8.55 Purge Rate (gpm): See below |
| (4) Liquid Depth [(1)-(2)]: 13.35 Purge Time (min): 10.5 |
| (5) Liquid Volume [(4)xF] (gal): Purge Volume (gal): |
| Did Well Pump Dry? Describe: 2.5 mm. (v 10 ypm = 25 gg/. |
| 8 min. a 5gpm = 40 gal. |
| Samplers: |
| Sampling Date: |
| Sample Type: Split? With Whom: |
| Comments and Observations: |
| Temp = 17°C, SC = 50, PH = 5.70 |
| |



| Site: 64, THERSIBURG NIKE CONTROL AREA |
|--|
| Well No: 6NC-5 Gauge Date: 5-25-89 Time: |
| Weather: Sony high 60's |
| Weil Condition: |
| Well Diameter (inches): 4: |
| Odor (describe): NONE |
| Sounding Method: Measurement Reference: |
| Stick up/down (ft): |
| (1) Well Depth (ft): Purge Date: 5-25-89 Time: 845 |
| (2) Depth to Liquid (ft): Purge Method: 4 5 5 b pump |
| (3) Depth to Water (ft): Purge Rate (gpm): |
| (4) Liquid Depth [(1)-(2)]: Furge Time (min): |
| (5) Liquid Volume [(4)xF] (gal): Purge Volume (gal): |
| Did Well Pump Dry? Describe: No |
| Samplers: |
| Sampling Date: 5-25-67 Time: 1545 |
| Sample Type: Split? With Whom: |
| Comments and Observations: |
| Temp = 1700, SC = 39 pH - 5.19 |
| |



| Site: | CAITHERSBURG NIKE CONTROL FREA |
|-------|---|
| | No: <u>GNC-6</u> Gauge Date: <u>5-25-89</u> Time: |
| | ier: Sunny high 60's |
| | Condition: 5000 |
| | |
| Well | Diameter (inches): 4. |
| Odor | (describe): NONE |
| Soun | ding Method: Measurement Reference: |
| Stic | k up/down (ft): |
| (1) | Well Depth (ft): Purge Date: Time: 856 |
| (2) | Depth to Liquid (ft): Purge Method: 4 - Sub. Pump |
| (3) | Depth to Water (ft): Purge Rate (gpm): /O gpm |
| (4) | Liquid Depth [(1)-(2)]: Purge Time (min): |
| (5) | Liquid Volume [(4)xF] (gal): Purge Volume (gal): |
| Did | Well Pump Dry? Describe: |
| | |
| Sam | olers: |
| Sam | oling Date: 5-25-89 Time: 1546 |
| Sam | ple Type: Split? With Whom: |
| Com | ments and Observations: |
| | T = 18.5, SC = 38, PH = 5.62 |
| | · |



| Site: <u>CAITHERS BURG NIKE CONTRUL AREA</u> |
|--|
| Well No: 6NC-7 Gauge Date: 5-25-89 Time: |
| Weather: Sunny |
| Well Condition: 600 |
| |
| Well Diameter (inches): 4° |
| Odor (describe): NONE |
| Sounding Method: W.L.I. Measurement Reference: T/PVC |
| Stick op down (ft): |
| (1) Well Depth (ft): 21.5 Purge Date: Time: |
| (2) Depth to Liquid (ft): Purge Method: 4° Bailer |
| (3) Depth to Water (ft): 13.5 Purge Rate (gpm): |
| (4) Liquid Depth [(1)-(2)]: 8 Purge Time (min): |
| (5) Liquid Volume [(4)xF] (gal): Purge Volume (gal): |
| Did Hell Pump Dry? Describe: 485 after 10 gal.; |
| wait 15 min - well purged dry after (ligal; removed |
| Samplers: |
| Sampling Date: <u>5-25-89</u> Time: |
| Sample Type: Split? With Whom: |
| Comments and Observations: |
| Temp = 17°C SC = 250, P/+ = 5.84 |
| |



| Site: GAITHERSBURG NIKE CONTROL AREA |
|---|
| Well No: 6NC-8 Gauge Date: 5-25-89 Time: 1056 |
| Weather: Sunny |
| Well Condition: 6000 |
| |
| Well Diameter (inches): |
| Odor (describe): NONE |
| Sounding Method: W.L.I. Measurement Reference: T/PVC |
| Stick(up/down (ft): |
| (1) Well Depth (ft): 31.35 Purge Date: 5-25-89 Time: 1056 |
| (2) Depth to Liquid (ft): Purge Method: 4 506. pump |
| (3) Depth to Water (ft): 17.48 Purge Rate (gpm): 1.6 9 pm |
| (4) Liquid Depth [(1)-(2)]: Purge Time (min): |
| (5) Liquid Volume [(4)xF] (gal): Purge Volume (gal): |
| Did Well Pump Dry? Describe: |
| |
| Samplers: |
| Sampling Date: Time: |
| Sample Type: Split? With Whom: |
| Comments and Observations: |
| Temp - 16°C &= 149 , pH = 5.74 |
| |

APPENDIX C
SLUG TEST DATA

IN-SITU INC. HERMIT DATA MANAGEMENT PACKAGE

GNL-T SLUG TEST 1

SLUG/SWAB TEST

 Sef. Value:
 33.10 kFt)

 H(0):
 : 6.55 (Ft)

 T(0):
 : .03 (Min)

| ELAPSED TIME | FEAL TIME (hh:mm) | VALUE (Ft) | HD/DRWDN (Ft) | DELTA TIME (Min) | HZH(0) |
|----------------|----------------------|----------------|------------------|---------------------|---------------|
| | | | | | |
| ្នាក់ស្វែក | DA: 1 15:08 | 39.64 | 6.54 | 0333 | . 798 |
| .0077 | 15:08 | 39.64 | 6.54 | 0300 | |
| . v0aa | 15:08 | 37.64 | 6.54 | 0267 | |
| .0099 | 15:09 | 39.64 | 6.54 | 0234 | .778 |
| .0133 | 15:08 | 39.64 | 6.54 | 0200 | . 798 |
| .0166 | 15:08 | 39.64 | 6.54 | 0167 | . 998 |
| .0200 | 15:08 | 39.64 | 6.54 | 0133 | .998 |
| .0233 | 15:08 | 39.64 | 6.54 | 0100 | . 998 |
| .0266 | 15:08 | 39.64 | 6.54 | 0067 | . 998 |
| .0300 | 15:08 | 39.64 | 6.54 | 0033 | . 798 |
| .0333 | 15:08 | 39.65 | 6.55 | .0000 | 1.000 |
| .0500 | 15:08 | 39.62 | 6. 52 | .0167 | . <i>9</i> 95 |
| .0666 | 15:08 | 39.53 | 6.43 | .0333 | .982 |
| .0833 | 15:08 | 39.45 | 6.35 | .0500 | .969 |
| .1000 | 15:08 | 39.37 | 6.27 | .0667 | .957 |
| .1166 | 15:08 | 39.29 | 5.19 | .0833 | .945 |
| .1333 | 15:08 | 39.22 | 6.12 | .1000 | .934 |
| .1500 | 15:08 | 39.13 | 6. 03 | .1167 | . 921 |
| .1666 | 15:08 | 39.06 | 5.96 | .1333 | .910 |
| .1833 | 15:08 | 38.97 | 5.87 | .1500 | .896 |
| .2000 | 15:08 | 3 8.8 9 | 5.79 | .1667 | .884 |
| -2166 | 15:08 | 38.82 | 5.72 | .1833 | .873 |
| .2333 | 15:08 | 38. 74 | 5.64 | .2000 | .861 |
| .2500 | 15:08 | 38.67 | 5.57 | .2167 | .850 |
| .2666 | 15:08 | 3 8. 60 | 5.5° | . 2333 | .840 |
| . 2833 | 15:08 | 3 8.5 4 | 5.44 | .2500 | .831 |
| .3000 | 15:08 | 3 8. 48 | 5.38 | . 2667 | .821 |
| .3166 | 15:08 | 3 8. 43 | 5.33 | .2833 | .814 |
| .3333 | 15:08 | 38.38 | 5.28 | .3000 | .806 |
| .4167 | 15:08 | 3 8. 15 | 5.05 | .3834 | .771 |
| .5000 | 15:08 | 37.93 | 4.8 3 | . 4667 | .737 |
| . 58 33 | 15:08 | 37.71 | 4.61 | .5500 | .704 |
| - 6667 | 15:08 | 37.51 | 4.41 | .6334 | . 673 |
| .7500 | 15:08 | 37.29 | 4.19 | .7167 | .640 |

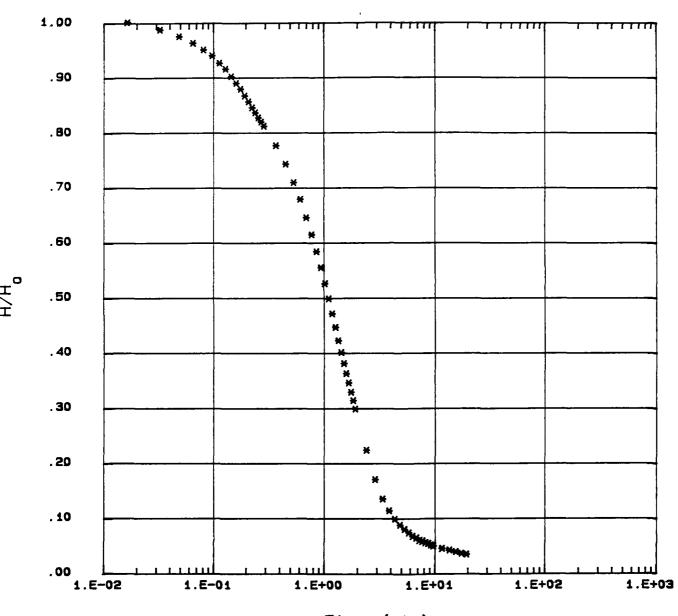
GNL-3 SLUG TEST 1

SLUG/SWAB TEST

Ref. Value: 33.10 (Ft) H(0): 6.55 (Ft) T(0): .03 (Min)

| ELAPSED TIME (Min) | SEAL TIME (hh:mm) | VALUE (Ft) | HD/DRWDN (Ft) | DELTA TIME (Min) | H/ H (0) |
|-----------------------|-------------------|----------------|------------------|---------------------|-----------------|
| | | | | ~~~~~~ | |
| | | | | | |
| .8333 | 15:08 | 37.09 | 3.99 | .8000 | .609 |
| .9157 | 15:08 | 36.89 | 3.79 | .8834 | .579 |
| t.0000 | 15:08 | 36.70 | 3.40 | .9667 | .550 |
| t.0833 | 15:09 | 36.51 | 7.41 | 1.0500 | .521 |
| 1.1667 | 15:09 | 3 6. 33 | 3.23 | 1.1334 | .493 |
| 1.2500 | 15:09 | 3 6. 15 | 3.0 5 | 1.2167 | . 466 |
| 1.3333 | 15:09 | 3 5. 99 | 2.89 | 1.3000 | . 441 |
| 1.4166 | 15:09 | 3 5. 83 | 2.73 | 1.3833 | .417 |
| 1.5000 | 1 5: 09 | 3 5. 69 | 2.59 | 1.4667 | . 395 |
| 1.5833 | 15:09 | 35.56 | 2.46 | 1.5500 | . 376 |
| 1.5667 | 15:09 | 35.44 | 2.34 | 1.6334 | . 357 |
| 1.7500 | 15:09 | 3 5. 33 | 2.23 | 1.7167 | .340 |
| 1.8333 | 15:09 | 3 5. 22 | 2.12 | 1.8000 | .324 |
| 1.9167 | 15:09 | 3 5. 12 | 2.02 | 1.8834 | .308 |
| 2.0000 | 15:09 | 3 5. 02 | 1.92 | 1.9667 | . 293 |
| 2.5000 | 15:10 | 34.53 | 1.43 | 2.4667 | .218 |
| 3.0000 | 15:10 | 34.18 | 1.08 | 2.9667 | . 165 |
| 3.5000 | 15:11 | 33.95 | . 85 | 3.4667 | .130 |
| 4.0000 | 15:11 | 33.81 | .71 | 3.9667 | .108 |
| 4.5000 | 1 5: 12 | 33.71 | -61 | 4.4667 | .093 |
| 5.0000 | 15:12 | 33.64 | . 54 | 4.9667 | .082 |
| 5.5000 | 15: 13 | 33.59 | . 49 | 5.4667 | .075 |
| 4.0000 | 1 5: 13 | 33.55 | . 45 | 5.9667 | .069 |
| 6.5 000 | 15:14 | 33.51 | . 41 | 6.4667 | .063 |
| 7.0000 | 15:14 | 33.49 | . 39 | 6.9667 | .060 |
| 7.5000 | 15:15 | 33.46 | . 36 | 7.4667 | . 055 |
| 8.0000 | 15:15 | 33.45 | .35 | 7.9667 | .053 |
| 8.5000 | 15:16 | 33.43 | .33 | 8.4667 | .050 |
| 9.0000 | 15:16 | 33.42 | .32 | 8.9667 | .049 |
| 9.5000 | 15: 17 | 33.40 | .30 | 9.4667 | .046 |
| 10.0000 | 15:17 | 33.39 | . 29 | 9.9667 | .044 |
| 12.0000 | 15:19 | 33.36 | . 26 | 11.9667 | .040 |
| 14.0000 | 15:21 | 33.34 | . 24 | 13.9667 | . 037 |
| 16.0000 | 1 5: 23 | 33.32 | .22 | 15.9667 | . 034 |
| 18.0000 | 15:25 | 33.30 | .20 | 17.9667 | .031 |
| 20.0000 | 15:27 | 33.29 | . 19 | 19.9667 | .029 |

GNL-3 SLUG TEST 1



Time (min)

IN-SITU INC. HERMIT DATA MANAGEMENT PACKAGE

GNL-I SLUG TEST I

ELUG/SWAB TEST

Ref. Value: T5.18 (Ft) H(0): 5.58 (Ft) T(0): - .00 (Min)

| RLAPSED TIME (Min) | FEAL TIME | VALUE (Ft) | HD/DRWDN (Ft) | OELTA TIME (Min) | H/H(0) |
|-----------------------|-------------|---------------|------------------|---------------------|--------|
| | | | | | |
| . 0000 | DAY . IE:IB | 40.78 | 5.58 | 0033 | 1.000 |
| .0033 | 1년:경험 | 40.76 | 5.5E | .0000 | 1.000 |
| .0046 | 15:35 | 40.73 | 5.55 | .0033 | .995 |
| .0099 | 15:35 | 40.72 | 5.54 | .0066 | .993 |
| .0133 | 15:35 | 40.71 | 5.53 | .0100 | .791 |
| .0166 | 15:35 | 40.69 | 5.51 | .0133 | .987 |
| .0200 | 15:35 | 40.69 | 5.51 | .0167 | |
| .0233 | 15:35 | 40.66 | 5.48 | .0200 | |
| .0266 | 15:35 | 40.45 | 5.47 | .0233 | |
| .0300 | 15:35 | 40.63 | 5.45 | .02 6 7 | |
| .0333 | 15:35 | 40.62 | 5.44 | .0300 | |
| .0500 | 15:35 | 40.55 | 5.37 | .0467 | |
| .0666 | 15:35 | 40.49 | 5.31 | .0633 | |
| .0833 | 15:35 | 40.44 | 5.26 | .0800 | |
| .1000 | 15:35 | 40.39 | 5.21 | .0967 | |
| .1166 | 15:35 | 40.36 | 5.18 | .1133 | .928 |
| .1333 | 15:35 | 40.30 | 5.12 | .1300 | .918 |
| .1500 | 15:35 | 40.25 | 5.07 | .1467 | .909 |
| .1466 | 15:35 | 40.22 | 5.04 | .1633 | .903 |
| .1833 | 15:35 | 40.18 | 5.00 | .1800 | .896 |
| .2000 | 15:35 | 40.14 | 4.96 | . 1967 | .889 |
| .2166 | 15:35 | 40.11 | 4.93 | .2133 | .884 |
| . 2333 | 15:35 | 40.07 | 4.89 | .2300 | |
| .2500 | 15:35 | 40.03 | 4.85 | . 2467 | .869 |
| .2666 | 15:35 | 39.99 | 4.81 | .2633 | .862 |
| .2833 | 15:35 | 39.95 | 4.77 | .2800 | . 855 |
| .3000 | 15:35 | 39.91 | 4.73 | . 2967 | .848 |
| .3166 | 15:35 | 39.87 | 4.69 | .3133 | .841 |
| .3333 | 15:35 | 39.83 | 4.65 | .3300 | .833 |
| . 4167 | 15:35 | 39.65 | 4.47 | .4134 | .801 |
| .5000 | 15:35 | 39、46 | 4.28 | . 4967 | .767 |
| .5833 | 15:35 | 39.28 | 4.10 | .5800 | .735 |
| .6667 | 15:35 | 39.10 | 3.92 | .6634 | |
| .7500 | 15:35 | 38.92 | 3.74 | . 7467 | .670 |

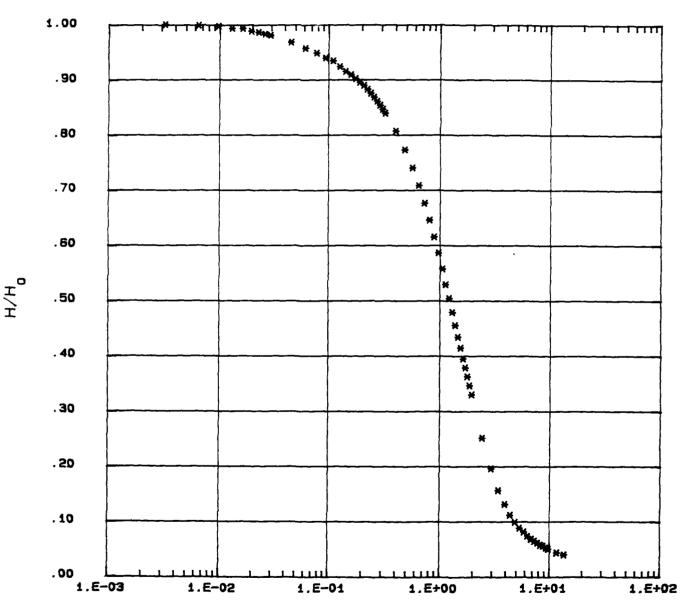
GNL-3 SLUG TEST I

ELUG/SWAB TEST

Ref. Value: 35.18 (Ft) H(0): 5.58 (Ft) T(0): 00 (Min)

| ELAPSED TIME (Min) | REAL TIME | VALUE (Ft) | HD/DRWDN (Ft) | DELTA TIME (Min) | H/H(0) |
|--------------------|-----------|----------------|------------------|---------------------|----------------|
| | | | | | |
| | | | _ | | |
| .8333 | 15:35 | 38.75 | 5.57 | .8300 | |
| .9167 | 15:35 | 38.58 | J.40 | .9134 | |
| 1.0000 | 15:35 | 38. 42 | 3.54 | . 9967 | |
| t.0833 | 15:36 | JB. 24 | I.08 | 1.0800 | |
| 1.1667 | :5:36 | 3 8. 10 | 2.52 | 1.1634 | |
| 1.2500 | 15:36 | 37.96 | 2.78 | 1.2467 | |
| 1.3333 | 15:36 | 37.82 | 2.64 | 1.3300 | |
| 1.4166 | 15:36 | 37.69 | 2.51 | 1.4133 | |
| 1.5000 | 15:36 | 37.57 | 2.39 | 1.4967 | |
| 1.5833 | 15:36 | 37.46 | 2.28 | 1.5800 | |
| 1.6667 | 15:36 | 37.35 | 2.17 | 1.6634 | |
| 1.7500 | 15:36 | 37.26 | 2.08 | 1.7467 | |
| 1.8333 | 15:36 | 37.17 | 1.99 | 1.8300 | |
| 1.9167 | 15:36 | 37.08 | 1.90 | 1.9134 | |
| 2.0000 | 15:36 | 36. 99 | 1.81 | 1.9967 | |
| 2.5000 | 15:37 | 36.55 | 1.37 | 2.4967 | |
| 3.0000 | 15:37 | 36.24 | 1.06 | 2.9967 | |
| 3 .5 000 | 15:38 | 36.02 | .84 | 3.4967 | |
| 4.0000 | 15:38 | 35.88 | .70 | 3.9967 | |
| 4.5000 | 15:39 | 3 5. 77 | .59 | 4.4967 | |
| 5.0000 | 15:39 | 3 5. 70 | .52 | 4.9967 | 7 .093 |
| 5.5000 | 15:40 | 3 5. 64 | . 46 | 5.4967 | |
| 6.0000 | 15:40 | 35.60 | .42 | 5.9967 | |
| 6.5000 | 15:41 | 3 5. 56 | .38 | 6.4967 | |
| 7.0000 | 15:41 | 35.53 | .35 | 6.9967 | 7 .06 3 |
| 7.5000 | 15:42 | 35.51 | .33 | 7.4967 | - |
| 8.0000 | 15:42 | 35.49 | .31 | 7.9967 | 7 .056 |
| 8.5000 | 15:43 | 35.47 | .29 | 8.4967 | 7 .052 |
| 9.0000 | 15:43 | 3 5. 46 | . 28 | 8.9967 | 7 .050 |
| 9.5000 | 15:44 | 35.44 | .26 | 9.4967 | 7 .047 |
| 10.0000 | 15:44 | 3 5. 43 | . 25 | 9.9967 | |
| 12.0000 | 15:46 | 35.39 | .21 | 11.9967 | 7 .038 |
| 14.0000 | 15:48 | 35.37 | .19 | 13.9967 | 7 .034 |

GNL-3 SLUG TEST 2



Time (min)

IN-SITU INC. HERMIT DATA MANAGEMENT PACKAGE

BNL-4 BLUG TEST 1

SLUG/SWAB TEST

| Fef. 5 | 'alue : | 9.45 | (Ft) |
|---|---------|------|-------|
| $rac{1}{4}$ (0) | * | 3.19 | (Ft) |
| $= \cdot \cdot \cdot \cdot \cdot \cdot \cdot$ | : | .00 | (Min) |

| ELAPSED TIME 'Min' | | VALUE (Ft) | HD/DRWDN (Ft) | DELTA TIME (Min) | H/H(0) |
|--|---|--|--|--|--|
| .0033 .0046 .0099 .0133 .0166 .0200 .0233 .0266 .0300 .0333 .0500 .0466 .0833 .1000 .1166 | DAY 1 13:29 13:29 13:29 13:29 13:29 13:29 13:29 13:29 13:29 13:29 13:29 13:29 13:29 13:29 13:29 | 12.64 12.63 12.50 12.58 12.54 12.54 12.52 12.49 12.48 12.46 12.43 12.26 12.19 12.12 12.06 12.00 | 3.19 3.18 3.15 3.13 3.11 3.09 3.07 3.04 3.03 3.01 2.98 2.89 2.81 2.74 2.67 2.61 2.55 | .0033 .0046 | .969 .962 .953 .950 .944 .934 .906 .881 .859 .837 |
| . 1500 . 1666 . 1833 . 2000 . 2166 . 2333 . 2500 . 2666 . 2833 . 3000 . 3166 . 3333 . 4167 . 5000 . 5833 . 6667 . 7500 | 13:29 13:29 13:29 13:29 13:29 13:29 13:29 13:29 13:29 13:29 13:29 13:29 13:29 | 11.95 11.90 11.85 11.81 11.77 11.73 11.70 11.66 11.63 11.60 11.57 11.54 11.39 11.24 11.09 10.96 | 2.50 2.45 2.40 2.36 2.32 2.28 2.25 2.21 2.18 2.15 2.12 2.09 1.74 1.79 1.64 1.51 | .1500 .1666 .1833 .2000 .2166 .2333 .2500 .2666 .2833 .3000 .3166 .3333 .4167 .5000 .5833 .6667 | .768 .752 .740 .727 .715 .705 .693 .683 .674 .665 .655 |

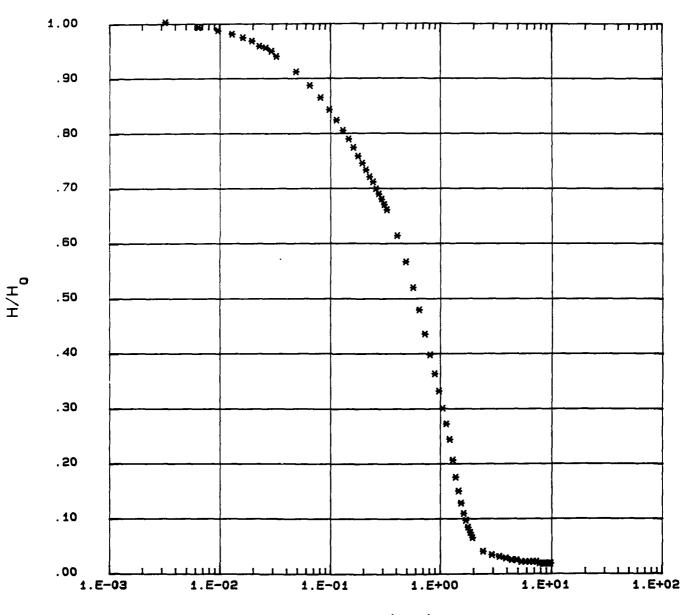
SNL-4 SLUG TEST 1

SLUG/SWAB TEST

Ref. Value: 9.45 (Ft) H(0): 3.19 (Ft) T(0): .00 (Min)

| ELAPSED TIME (Min) | REAL TIME (hh:mm) | VALUE (Ft) | HD/DRWDN (Ft) | DELTA TIME (Min) | H/H (0) |
|--------------------|----------------------|---------------|------------------|------------------|---------|
| | | | | | |
| .8333 | 13:29 | 10,70 | 1.25 | . 8333 | .392 |
| .9167 | 7:29 | 10.59 | 1.14 | .9167 | . 337 |
| 1.0000 | 17:30 | 10,49 | 1.04 | 1.0000 | . 326 |
| 1.0833 | 17:30 | 10,37 | .94 | 1.0833 | . 295 |
| 1.1667 | 13:30 | 10.30 | . 85 | 1.1667 | . 266 |
| 1.2500 | 13:30 | 10.21 | .76 | 1.2500 | .238 |
| 1.3333 | 13:30 | 10.09 | -64 | 1.3333 | .201 |
| 1.4166 | 13:30 | 9.99 | .54 | 1.4166 | . 169 |
| 1.5000 | 13:30 | 9.91 | . 46 | 1.5000 | . 144 |
| 1 .58 33 | 13:30 | 9.84 | .39 | 1.5833 | .122 |
| 1.6667 | 13:30 | 9.78 | .33 | 1.6667 | .103 |
| 1.7500 | 13:30 | 9.74 | . 29 | 1.7500 | .091 |
| 1.8333 | 13:30 | 9.70 | .25 | 1.8333 | .078 |
| 1.9167 | 13:30 | 9.67 | .22 | 1.9167 | .069 |
| 2.0000 | 13:31 | 9.64 | .19 | 2.0000 | .060 |
| 2.5000 | 13:31 | 9.56 | .11 | 2.5000 | .034 |
| 3.0000 | 13:32 | 9.54 | .09 | 3.0000 | .028 |
| 7.5000 | 13:32 | 9.53 | 8 | 3.5000 | . 25 |
| 4.0000 | 13:33 | 9.52 | .07 | 4.0000 | .022 |
| 4.5000 | 13:33 | 9.51 | .04 | 4.5000 | .019 |
| 5.0000 | 13:34 | 9.51 | .06 | 5.0000 | .019 |
| 5.5000 | 13:34 | 9.50 | .05 | 5.5000 | .016 |
| 4.0000 | 13:35 | 9.50 | .05 | 4.0000 | .016 |
| 6.5000 | 13:35 | 9.50 | .05 | 6.5000 | .016 |
| 7.0000 | 13:36 | 9.50 | .05 | 7.0000 | .016 |
| 7.5000 | 13:36 | 9.50 | .05 | 7.5000 | .016 |
| 8.0000 | 13:37 | 9.49 | .04 | 8.0000 | .013 |
| 8.5000 | 13:37 | 9.49 | .04 | 8.5000 | |
| 9.0000 | 13:38 | 9.49 | .04 | 9.0000 | |
| 9.5000 | 13:38 | 9.49 | .04 | 9.5000 | |
| 10.0000 | 13:39 | 9.49 | .04 | 10.0000 | .013 |

GNL-4 SLUG TEST 1



Time (min)

IN-SITU INC. HERMIT DATA MANAGEMENT PACKAGE

GNL-4 SLUG TEST 2

SLUG/SWAB TEST

| Sef. | Value | : | 9.45 | (Ft) |
|-------|-------|---|------|-------|
| H(0) | | : | 3.37 | (Ft) |
| T (0) | | : | .00 | (Min) |

| ELAPSED TIME (Min) | | VALUE (Ft) | HD/DRWDN (ft) | DELTA TIME (Min) | HZH (0) |
|-----------------------|-------|---------------|------------------|---------------------|-------------------|
| | | | | | |
| | | | | | |
| | | 12.82 | 3.37 | | 1.000 |
| .0033 | 13:43 | 12.80 | 3.35 | | , 2 94 |
| .0066 | 13:43 | | 3.33 | | .788 |
| .0099 | 13:43 | 12.76 | 3.31 | .0099 | |
| .0133 | 13:43 | 12.74 | 3.29 | .0133 | |
| .0166 | 13:43 | 12.72 | 3.27 | .0166 | |
| .0200 | 13:43 | 12.71 | 3.26 | .0200 | |
| .0233 | 13:43 | 12.69 | 3.24 | .0233 | |
| .0266 | 13:43 | 12.67 | 3.22 | .0266 | |
| .0300 | 13:43 | 12.66 | 3.21 | .0300 | |
| .0333 | 13:43 | 12.64 | 3.19 | .0333 | |
| .0500 | 13:43 | 12.56 | 3.11 | .0500 | |
| .0666 | 13:43 | 12.49 | 3.04 | .0666 | |
| .0833 | 13:43 | 12.41 | 2.96 | .0833 | |
| .1000 | 13:43 | 12.34 | 2.89 | .1000 | |
| .1166 | 13:43 | 12.27 | 2.82 | .1166 | |
| .1333 | 13:43 | 12.20 | 2. <i>7</i> 5 | .1333 | .816 |
| .1500 | 13:43 | 12.13 | 2.68 | .1500 | .795 |
| - 1666 | 13:43 | 12.07 | 2.62 | .1666 | .777 |
| .1833 | 13:43 | 12.01 | 2.56 | .1833 | .760 |
| .2000 | 13:43 | 11.96 | 2.51 | .2000 | .745 |
| .2166 | 13:43 | 11.91 | 2.46 | .2166 | .730 |
| .2333 | 13:43 | 11.86 | 2.41 | . 2333 | .715 |
| .2500 | 13:43 | 11.82 | 2.37 | .2500 | .703 |
| . 2466 | 13:43 | 11.78 | 2.33 | . 2666 | . 591 |
| .2833 | 13:43 | 11.75 | 2.30 | .2833 | .682 |
| .3000 | 13:43 | 11.71 | 2.26 | .3000 | |
| .3166 | 13:43 | 11.68 | 2.23 | .3166 | .662 |
| .3333 | 13:43 | 11.65 | 2.20 | .3333 | |
| . 4167 | 13:43 | 11.50 | 2.05 | .4167 | |
| .5000 | 13:43 | 11.35 | 1.90 | .5000 | |
| . 58 33 | 13:43 | 11.21 | 1.76 | .5833 | |
| . 6667 | 13:43 | 11.07 | 1.62 | . 6667 | |
| | | - | 1.49 | .7500 | .442 |
| . 75 00 | 13:43 | 10.94 | 1.47 | . /300 | . ~~~ |

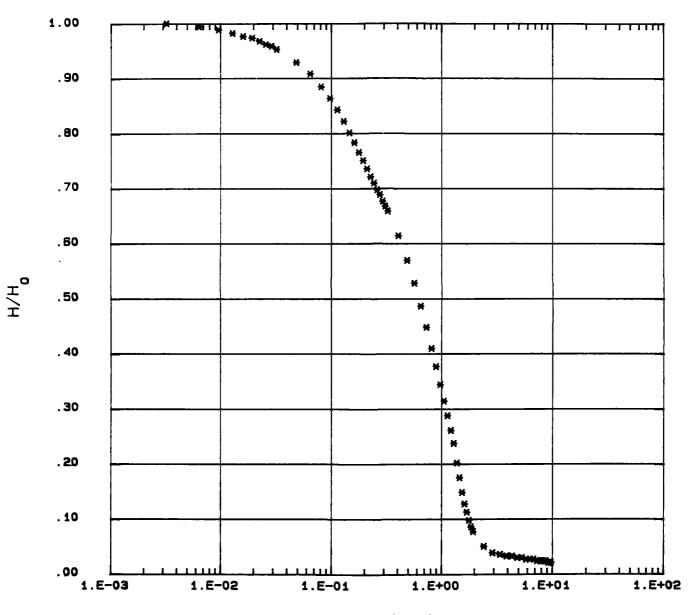
GNL-4 SLUG TEST 2

SLUG/SWAB TEST

Ref. Value: 9.45 (Ft) H(0): 3.37 (Ft) T(0): .00 (Min)

| ELAPSED TIME (Min) | REAL TIME (hh:mm) | VALUE (Ft) | HD/DRWDN (Ft) | DELTA TIME (Min) | H/H(0) |
|-----------------------|----------------------|---------------|------------------|---------------------|-----------|
| | | | | | |
| | | | | | |
| . 2333 | 13:43 | 10.81 | 1.36 | .8333 | . 404 |
| .9167 | 13:43 | 10.70 | 1.25 | .7167 | |
| 1.0000 | 13:44 | 10.59 | 1.14 | 1.0000 | |
| 1.0533 | 13:44 | 10.49 | 1.04 | 1.0833 | |
| 1.1667 | 13:44 | 10.40 | . 95 | 1,1567 | • |
| 1.2500 | 13:44 | 10.31 | . 86 | 1.2500 | |
| 1.3333 | 13:44 | 10.23 | .78 | 1.3333 | |
| 1.4156 | 13:44 | 10.11 | - 66 | 1.4166 | |
| 1.5000 | 13:44 | 10.02 | .57 | 1.5000 | |
| 1.5833 | 13:44 | 9.93 | .48 | 1.5833 | |
| 1.6667 | 13:44 | 9.86 | .41 | 1.6667 | |
| 1.7500 | 13:44 | 9.81 | .36 | 1.7500 | |
| 1.8333 | 13:44 | 9.76 | .31 | 1.8333 | |
| 1.9167 | 13:44 | 9.72 | .27 | 1.9167 | · · · · - |
| 2.0000 | 13:45 | 9.69 | . 24 | 2.0000 | |
| 2.5000 | 13:45 | 9.60 | .15 | 2.5000 | |
| 3.0000 | 13:46 | 9.56 | .11 | 3.0000 | |
| 3 .5 000 | 13:46 | 9.55 | .10 | 3 .5 000 | |
| 4.0000 | 13:47 | 9.54 | .09 | 4.0000 | |
| 4.5000 | 13:47 | 9.54 | .09 | 4.5000 | |
| 5.0000 | 13:48 | 9.53 | .08 | 5.0000 | |
| 5.5000 | 13:48 | 9.53 | 08 | 5.5000 | · - — · |
| 6.0000 | 13:49 | 9.52 | .07 | 6.0000 | |
| 6.5000 | 13:49 | 9.52 | .07 | 6.5 000 | |
| 7.0000 | 13:50 | 9.52 | .07 | 7.0000 | |
| 7.5000 | 13:50 | 9.51 | .06 | 7.5000 | |
| 8.0000 | 13:51 | 9.51 | .06 | 8.0000 | |
| 8.5000 | 13:51 | 9.51 | .06 | 8.5000 | |
| 9.0000 | 13:52 | 9.51 | .06 | 9.0000 | |
| 9.5000 | 13:52 | 9.50 | .05 | 9.5000 | |
| 10.0000 | 13:53 | 9.50 | .05 | 10.0000 | |

GNL-4 SLUG TEST 2



Time (min)

: **:**

IN-SITU INC. HERMIT DATA MANAGEMENT FACKAGE

GNC-6 SLUG TEST 1

SLUG/SWAB TEST

 Sef. Value:
 34.47 (Ft)

 H(0):
 3.44 (Ft)

 T(0):
 00 (Min)

| ELAFSED TIME | PEAL TIME (hh:mm) | VALUE (Ft) | HD/DRWDN (Ft) | DELTA TIME (Min) | H/H(0) |
|----------------|----------------------|----------------|------------------|---------------------|----------------|
| | | | | | |
| .0000 | DAY 1 11:34 | 37.91 | ₹.44 | .0000 | 1.000 |
| .0033 | 11:34 | 37.80 | 3.33 | .0033 | .768 |
| .0046 | 11:34 | 37.79 | 3.32 | .0066 | . 965 |
| .0099 | 11:34 | 37 .75 | ತ.28 | .0099 | .953 |
| .0133 | 11:34 | 37.74 | 3.27 | .0133 | .951 |
| .0166 | 11:34 | 37.70 | 3.23 | .0166 | .939 |
| .0200 | 11:34 | 37.65 | 3.18 | .0200 | .924 |
| .0233 | 11:34 | 37 .65 | 3.18 | .0233 | .924 |
| .0266 | 11:34 | 37.61 | 3.14 | .0266 | .913 |
| .0300 | 11:34 | 37.57 | 3.10 | .0300 | .901 |
| .0333 | 11:34 | 37.55 | 3.08 | .0333 | .895 |
| .0500 | 11:34 | 37.41 | 2.94 | .0500 | .855 |
| .0666 | 11:34 | 37.28 | 2.81 | .0666 | .817 |
| .0833 | 11:34 | 37.16 | 2.69 | .0833 | .782 |
| .1000 | 11:34 | 37.04 | 2.57 | .1000 | .747 |
| .1166 | 11:34 | 36.94 | 2.47 | .1166 | .718 |
| .1333 | 11:34 | 36.84 | 2.37 | .1333 | . 689 |
| .1500 | 11:34 | 36.75 | 2.28 | .1500 | .663 |
| .1666 | 11:34 | 36.66 | 2.19 | .1666 | . 637 |
| . 1833 | 11:34 | 36.58 | 2.11 | .1833 | .613 |
| .2000 | 11:34 | 36.49 | 2.02 | .2000 | .587 |
| .2166 | 11:34 | 36.42 | 1.95 | .2166 | .567 |
| .2333 | 11:34 | 34.34 | 1.89 | .2333 | .549 |
| . 2500 | 11:34 | 36.30 | 1.83 | .2500 | .532 |
| . 2666 | 11:34 | 36.24 | 1.77 | . 2666 | .515 |
| .2833 | 11:34 | 36.18 | 1.71 | . 2833 | . 497 |
| .3000 | 11:34 | 36.13 | 1.66 | .3000 | . 4 8 3 |
| .3166 | 11:34 | 36.08 | 1.61 | .3166 | .468 |
| .3333 | 11:34 | 36.04 | 1.57 | .3333 | . 456 |
| . 4167 | 11:34 | 3 5. 85 | 1.38 | .4167 | . 401 |
| .5000 | 11:34 | 35.71 | 1.24 | .5000 | .360 |
| . 58 33 | 11:34 | 35.60 | 1.13 | .5833 | .328 |
| . 6667 | 11:34 | 35.52 | 1.05 | . 6667 | . 305 |
| . 7500 | 11:34 | 35.46 | . 99 | .7500 | . 288 |

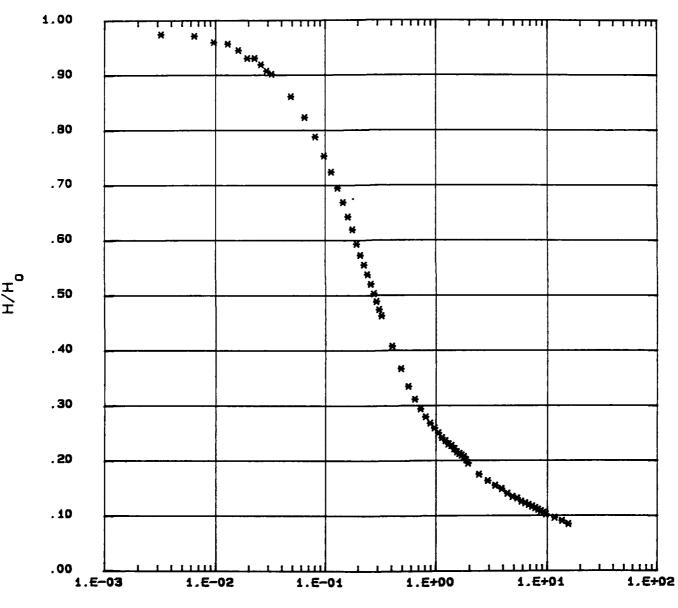
GNC-6 SLUG TEST 1

SLUG/SWAB TEST

Ref. Value: 34.47 (Ft) H(O): 3.44 (Ft) T(O): .00 (Min)

| ELAFSED TIME (Min) | REAL TIME (hh:mm) | YALUE (Ft) | HD/DRWDN (Ft) | DELTA TIME (Min) | H/H(0) |
|-----------------------|-------------------|-------------------|------------------|------------------|--------|
| | | | .94 | .8333 | .273 |
| .8333 | 11:34 | 35.41 | .74 | .9167 | . 262 |
| .9167 | 11:34 | 35.37 | .87 | 1.0000 | . 253 |
| 1.0000 | 11:35 | 35.34 | .84 | 1.0833 | . 244 |
| 1.0833 | 11:35 | 35.31 | .81 | 1.1667 | . 235 |
| 1.1567 | 11:35 | 35.28 | .79 | 1.2500 | .230 |
| 1.2500 | 11:35 | 35.26 | .77 | 1.3333 | . 224 |
| 1.3333 | 11:35 | 35.24 | .74 | 1.4166 | .221 |
| 1.4166 | 11:35 | 35.23 35.23 | .74 | 1,5000 | .215 |
| 1.5000 | 11:35 | 35.21 | .72 | 1.5833 | . 209 |
| 1.5833 | 11:35 | 35.19 | .71 | 1.6667 | .206 |
| 1.6667 | 11:35 | 35.18 | .70 | 1.7500 | .203 |
| 1.7500 | 11:35 | 35.17 | .69 | 1.8333 | . 201 |
| 1.8333 | 11:35 | 35.16 | .67 | 1.9167 | |
| 1.9167 | 11:35 | 35.14 | . 65 | 2.0000 | _ |
| 2.0000 | 11:36 | 35.12 | .58 | 2.5000 | |
| 2.5000 | 11:36 | 35.05 | .54 | 3.0000 | |
| 3.0000 | 11:37 | 3 5. 01 | .51 | 3.5000 | _ |
| 3.5000 | 11:37 | 34.98 | .49 | 4.0000 | |
| 4.0000 | 11:38 | 34.96 34.83 | . 46 | 4,5000 | - |
| 4.5000 | 11:38 | 34. <i>9</i> 3 | .44 | 5.0000 | .128 |
| 5.0000 | 11:39 | 34.91 | .43 | 5.5000 | |
| 5.5000 | 11:39 | 34.90 | .41 | 6.0000 | .119 |
| 6.0000 | 11:40 | 34.88 34.87 | 40 | 6.5000 | |
| 6.5000 | 11:40 | 34.86 | .39 | 7.0000 | _ |
| 7.0000 | 11:41 | 34.8 5 | .38 | 7.5000 | |
| 7.5000 | 11:41 | | .37 | 8.0000 | .108 |
| 8.0000 | 11:42 | 34.84 34.83 | .36 | 8.5000 | |
| 8.5000 | 11:42 | | .35 | 9,0000 | .102 |
| 9.0000 | 11:43 | 34.82 34.81 | .34 | 9.5000 | |
| 9.5000 | 11:43 | 34.80 | .33 | 10.0000 | |
| 10.0000 | 11:44 | 34.80 34.78 | .31 | 12.0000 | |
| 12.0000 | 11:46 | 34.76 34.76 | .29 | 14,0000 | .084 |
| 14.0000 | 11:48 | 34.76 34.74 | .27 | 14.0000 | .078 |
| 16.0000 | 11:50 | J ~ • / •• | · · | | |

GNL-6 SLUG TEST 1



Time (min)

IN-SITU INC. HERMIT DATA MANAGEMENT PACKAGE

GNL-6 SLUG TEST 2

SLUG/SWAB TEST

| Ref. | Value | : | 37,85 | (Ft) |
|------|-------|---|-------|-------|
| H(0) | | : | 3.12 | (Ft) |
| T(0) | | ; | .00 | (Min) |

| ELAPSED TIME (Min) | REAL TIME (bh:mm) | VALUE (Ft) | HD/DRWDN (Ft) | DELTA TIME (Min) | H/H(0) |
|-----------------------|-------------------|----------------|------------------|---------------------|--------|
| | | | | | |
| | | | | | |
| | DAY 1 12:01 | 40.97 | 3.12 | | 1.000 |
| .0033 | 12:01 | 40.94 | 3.09 | .0033 | .790 |
| .0066 | 12:01 | 40.91 | 3.06 | .0066 | |
| .0099 | 12:01 | 40.88 | 3.03 | .0099 | |
| .0133 | 12:01 | 40.86 | 3.01 | .0133 | |
| .0166 | 12:01 | 40.83 | 2.98 | .0166 | |
| .0200 | 12:01 | 40.79 | 2.94 | .0200 | .942 |
| .0233 | 12:01 | 40.76 | 2.91 | .0233 | .933 |
| .0266 | 12:01 | 40.74 | 2.89 | .0266 | .926 |
| .0300 | 12:01 | 40.71 | 2.86 | .0300 | .917 |
| .0333 | 12:01 | 40.69 | 2.84 | .0333 | .910 |
| .0500 | 12:01 | 40.56 | 2.71 | .0500 | .869 |
| .0666 | 12:01 | 40.44 | 2.59 | .0666 | .830 |
| .0833 | 12:01 | 40.33 | 2.48 | .0833 | .795 |
| .1000 | 12:01 | 40.22 | 2.37 | .1000 | .760 |
| .1166 | 12:01 | 40.12 | 2.27 | .1166 | .728 |
| .1333 | 12:01 | 40.03 | 2.18 | .1333 | .699 |
| .1500 | 12:01 | 39.95 | 2.10 | .1500 | .673 |
| .1666 | 12:01 | 39.86 | 2.01 | .1666 | .644 |
| .1833 | 12:01 | 3 9. 79 | 1.94 | .1833 | .622 |
| .2000 | 12:01 | 39.71 | 1.86 | .2000 | .596 |
| .2166 | 12:01 | 3 9.65 | 1.80 | .2166 | . 577 |
| . 2333 | 12:01 | 3 9.5 8 | 1.73 | .2333 | . 554 |
| .2500 | 12:01 | 39.52 | 1.67 | .2500 | .535 |
| . 2666 | 12:01 | 39.46 | 1.61 | .2666 | .516 |
| . 2833 | 12:01 | 39.41 | 1.56 | .2833 | .500 |
| .3000 | 12:01 | 39.36 | 1.51 | .3000 | . 484 |
| .3166 | 12:01 | 39. 32 | 1.47 | .3166 | . 471 |
| .3333 | 12:01 | 39.27 | 1.42 | .3333 | . 455 |
| .4167 | 12:01 | 39.10 | 1.25 | .4167 | . 401 |
| .5000 | 12:01 | 3 8. 97 | 1.12 | .5000 | .359 |
| . 58 33 | 12:01 | 3 8.8 7 | 1.02 | . 5833 | .327 |
| .6667 | 12:01 | 38.79 | .94 | . 6667 | .301 |
| .7500 | 12:01 | 38.73 | .88 | .7500 | . 282 |

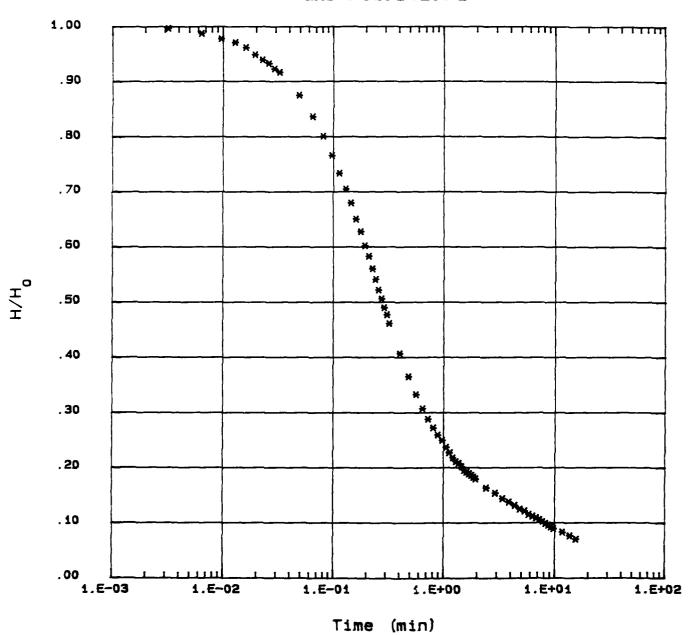
GNL-6 SLUG TEST 2

SLUG/SWAB TEST

Ref. Value: 37.85 (Ft) H(O): 3.12 (Ft) T(O): .00 (Min)

| ELAPSED TIME (Min) | REAL TIME (hh:mm) | VALUE (Ft) | HD/DRWDN (Ft) | DELTA TIME (Min) | H/H(0) |
|-----------------------|-------------------|-------------------------|------------------|---------------------|--------|
| .8333 9147 | 12:01 12:01 | 3 8. 68 38.64 | .83 .79 | .8333 .9167 | |
| .9147 1.0000 | 12:02 | 38.61 | .76 | 1.0000 | |
| 1.0833 | 12:02 | 3 8. 57 | .72 | 1.0833 | |
| 1.1667 | 12:02 | 38.54 | - 69 | 1.1667 | |
| 1.2500 | 12:02 | 38.51 | - 66 | 1.2500 | |
| 1.3333 | 12:02 | 38.49 | . 64 | 1.3333 | |
| 1.4166 | 12:02 | 38.48 | .63 | 1.4166 | |
| 1.5000 | 12:02 | 38.46 | . 61 | 1.5000 | |
| 1.5833 | 12:02 | 3 8. 44 | .59 | 1.5833 1.6667 | |
| 1.6667 | 12:02 | 38.43 38.42 | . 58 . 57 | 1.7500 | |
| 1.7500 | 12:02 | 38.41 | .56 | 1.8333 | |
| 1.8333 1.9167 | 12:02 12:02 | 38.40 | .55 | 1.9167 | |
| 2.0000 | 12:03 | 3 8. 39 | .54 | 2.0000 | |
| 2.5000 | 12:03 | 38.34 | . 49 | 2.5000 | |
| 3.0000 | 12:04 | 38.31 | . 46 | 3.0000 | |
| 3.5000 | 12:04 | 38.28 | . 43 | 3.5000 | |
| 4.0000 | 12:05 | 38.26 | .41 | 4.0000 | .131 |
| 4.5000 | 12:05 | 3 8. 24 | .39 | 4.5000 | .125 |
| 5.0000 | 12:06 | 38.22 | .37 | 5.0000 | .119 |
| 5.5000 | 12:06 | 38.21 | .36 | 5.5000 | |
| 6.0000 | 12:07 | 38.19 | .34 | 6.0000 | |
| 6.5000 | 12:07 | 38. 18 | .33 | 6.5000 | |
| 7.0000 | 12:08 | 38.17 | 32 | 7.0000 | |
| 7 .500 0 | 12:08 | 38.16 | .31 | 7.5000 | |
| 8.0000 | 12:09 | 38.15 | .30 | 8.0000 | |
| 8.5000 | 12:09 | 38.14 | . 29 | 8.5000 | |
| 9.0000 | 12:10 | 38.13 | .28 | 9.0000 9.5000 | |
| 9.5000 | 12:10 | 38.12 | . 27 | 10.0000 | _ |
| 10.0000 | 12:11 | 38.11 | . 26 . 24 | 12.0000 | |
| 12.0000 | 12:13 | 38.09 38.07 | .22 | 14.0000 | |
| 14.0000 16.0000 | 12:15 12:17 | 38.05 | .20 | 16.0000 | |
| 18.0000 | 14:1/ | 30.03 | • 20 | 101000 | |

GNL-6 SLUG TEST 2



IN-SITU INC. HERMIT DATA MANAGEMENT PACKAGE

GNL-8 SLUG TEST 1

SLUG/SWAB TEST

 Ref. value:
 20.04 (Ft)

 H(0):
 5.04 (Ft)

 T(0):
 .01 (Min)

| ELAPSED TIME (Min) | REAL TIME | VALUE (Ft) | HD/DRWDN (Ft) | DELTA TIME (Min) | H/ H (0) |
|---|---|---|--|---|---|
| .0000 .0033 .0066 .0099 .0133 .0166 | DAY : :3:08 13:08 13:08 13:08 13:08 13:08 | 26.08 26.07 26.08 26.06 26.04 26.03 26.02 | 5.04 6.03 6.04 6.02 6.00 5.99 9.98 | 0066 0033 .0000 .0033 .0067 .0100 | .998 1.000 .997 .993 |
| .0233 .0266 .0300 .0333 .0500 .0666 .0833 | 13:08 13:08 13:08 13:08 13:08 13:08 13:08 | 26.01 26.00 25.99 25.98 25.93 25.88 25.83 | 5.97 5.96 5.95 5.94 5.89 5.84 5.79 | .0167 .0200 .0234 .0267 .0434 .0600 .0767 | . 988 . 987 . 985 . 983 . 975 . 967 . 959 |
| .1166 .1333 .1500 .1666 .1833 .2000 | 13:08 13:08 13:08 13:08 13:08 13:08 | 25.74 25.69 25.64 25.60 25.55 25.51 | 5.70 5.45 5.40 5.56 5.51 5.47 5.42 | .1100 .1267 .1434 .1600 .1767 .1934 | .944 .935 |
| .2333 .2500 .2666 .2833 .3000 .3166 | 13:08 13:08 13:08 13:08 13:08 13:08 | 25.42 25.38 25.33 25.29 25.25 25.21 25.17 | 5.38 5.34 5.29 5.25 5.21 5.17 5.13 | .2267 .2434 .2600 .2767 .2934 .3100 | .891 .884 .876 .869 .863 .856 |
| .4167 .5000 .5833 .6667 .7500 | 13:08 13:08 13:08 13:08 13:08 | 24.97 24.77 24.63 24.51 24.39 | 4.93 4.73 4.59 4.47 4.35 | .4101 .4934 .5767 .6601 .7434 | .816 .783 .760 .740 .720 |

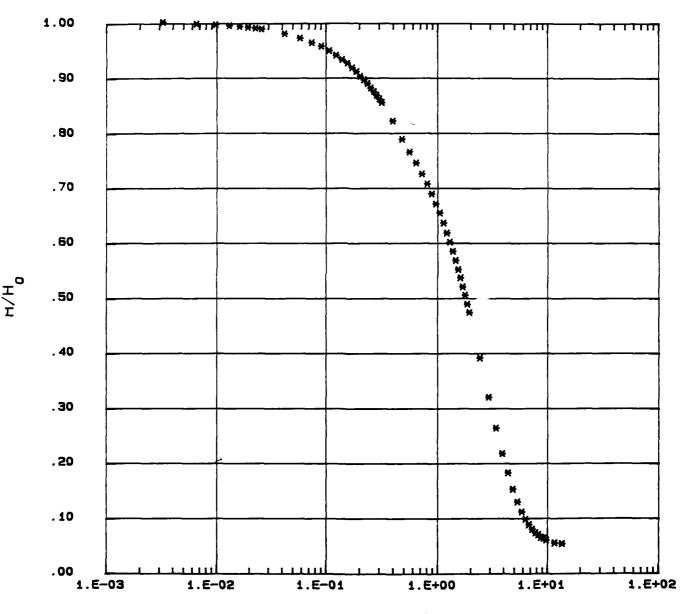
GNL-8 SLUG TEST 1

SLUG/SWAB TEST

Ref. Value: 20.04 (Ft) H(0): 6.04 (Ft) T(0): .01 (Min)

| ELAPSED TIME (Min) | REAL TIME (hh:mm) | VALUE (Ft) | HD/DRWDN (Ft) | DELTA TIME (Min) | H/H(0) |
|--------------------|-------------------|---------------|------------------|---------------------|--------|
| | | | | | |
| .8333 | 13:08 | 24.28 | 4.24 | .8267 | .702 |
| .9167 | 13:08 | 24.17 | 4.13 | .7101 | . 584 |
| 1.0000 | 13:08 | 24.06 | 4.02 | . 9934 | . 666 |
| 1.0833 | 17:09 | 23.96 | 3.92 | 1.0767 | . 649 |
| 1.1667 | 13:09 | 23.85 | 3.81 | 1.1601 | .631 |
| 1.2500 | 13:09 | 23.74 | 3.70 | 1.2434 | . 513 |
| 1.3333 | 13:09 | 23.64 | 3.60 | 1.3247 | . 596 |
| 1.4160 | 10:09 | 23.54 | 3.50 | 1.4100 | .579 |
| 1.5000 | 13:09 | 23.44 | 3.40 | 1.4934 | .563 |
| 1.5833 | 13:09 | 23.34 | 3.30 | 1.5767 | . 546 |
| 1.6667 | 13:09 | 23.25 | 3.21 | 1.6601 | .531 |
| 1.7500 | 13:09 | 23.15 | 3.11 | 1.7434 | .515 |
| 1.8333 | 13:09 | 23.06 | 3.02 | 1.8267 | .500 |
| 1.9167 | 13:09 | 22.96 | 2.92 | 1.9101 | . 483 |
| 2.0000 | 13:09 | 22.87 | 2.83 | 1.9934 | . 469 |
| 2.5000 | 13:10 | 22.37 | 2.33 | 2.4934 | .386 |
| 3.0000 | 13:10 | 21.94 | 1.90 | 2.9934 | .315 |
| 3.5000 | 13:11 | 21.60 | 1.56 | 3.4934 | . 258 |
| 4.0000 | 13:11 | 21.32 | 1.28 | 3.9934 | .212 |
| 4.5000 | 13:12 | 21.11 | 1.07 | 4.4934 | . 177 |
| 5.0000 | 13:12 | 20.93 | .89 | 4.9934 | . 147 |
| 5.5000 | 13:13 | 20.79 | . 75 | 5.4934 | .124 |
| 6.0000 | 13:13 | 20.68 | .64 | 5.9934 | .106 |
| 6.5000 | 13:14 | 20.60 | . 56 | 6.4934 | .093 |
| 7.0000 | 13:14 | 20.54 | .50 | 6.9934 | .083 |
| 7 .50 00 | 13:15 | 20.49 | . 45 | 7.4934 | .075 |
| 8.0000 | 13:15 | 20.45 | .41 | 7.9934 | .068 |
| 8.5000 | 13:16 | 20.43 | .39 | 8.4934 | .065 |
| 9.0000 | 13:16 | 20.40 | .36 | 8.9934 | .040 |
| 9.5000 | 13:17 | 20.39 | .35 | 9.4934 | .058 |
| 10.0000 | 13:17 | 20.37 | .33 | 9.9934 | . 055 |
| 12.0000 | 13:19 | 20.34 | .30 | 11.9934 | .050 |
| 14.0000 | 13:21 | 20.33 | .29 | 13.9934 | .048 |

GNL-8 SLUG TEST 1



Time (min)

IN-SITU INC. HERMIT DATA MANAGEMENT FACKAGE

SNL-8 SLUG TEST I

SLUG/SWAB TEST

| ≘ef. | Value | : | 20.08 | (Ft) |
|-------------------------------|-------|---|-------|-------|
| $H \in \mathcal{O} \setminus$ | | : | 5.48 | (Ft) |
| 7(0) | | : | .00 | (Min) |

| ELAFSED TIME | REAL TIME | VALUE (Ft) | (Ft) | DELTA TIME | HZH (0) |
|----------------|-----------------------|----------------|------|------------|---------|
| | | | | | |
| . 3000 | DAY 1 13:25 | 25.56 | 5.48 | , 0000 | 1.000 |
| 3033 | Control of the second | 25.54 | 5.46 | .0033 | .996 |
| .0066 | 13:25 | 25.53 | 5.45 | .0066 | .995 |
| .0099 | 13:25 | 25.54 | 5.46 | .0099 | . 796 |
| .0133 | 13:25 | 25,53 | 5.45 | .0133 | .995 |
| .0166 | 13:25 | 2 5. 53 | 5.45 | .0166 | .995 |
| .0200 | 13:25 | 25.51 | 5.43 | .0200 | .991 |
| .0233 | 13:25 | 25.50 | 5.42 | .0233 | .989 |
| .0266 | 13:25 | 25.49 | 5.41 | .0266 | .987 |
| .0300 | 13:25 | 25.48 | 5.40 | .0300 | |
| .0333 | 13:25 | 25.47 | 5.39 | .0333 | .984 |
| .0500 | 13:25 | 25.43 | 5.35 | .0500 | |
| .0666 | 13:25 | 25.39 | 5.31 | .0666 | |
| .0 8 33 | 13:25 | 25.34 | 5.26 | .0833 | .960 |
| .1000 | 13:25 | 25.30 | 5.22 | .1000 | .953 |
| .1166 | 13:25 | 25.25 | 5.17 | .1166 | |
| .1333 | 13:25 | 25.21 | 5.13 | .1333 | |
| .1500 | 13:25 | 25.17 | 5.09 | .1500 | |
| .1666 | 13:25 | 25.13 | 5.05 | .1666 | |
| .1833 | 13:25 | 2 5.08 | 5.00 | .1833 | .912 |
| .2000 | 13:25 | 25.04 | 4.96 | .2000 | |
| - 2166 | 13:25 | 25.00 | 4.92 | .2166 | |
| .2333 | 13:25 | 24.96 | 4.88 | .2333 | .891 |
| .2500 | 13:25 | 24.92 | 4.84 | .2500 | |
| . 2666 | 13:25 | 24.88 | 4.80 | . 2666 | .876 |
| . 2833 | 13:25 | 24.84 | 4.76 | . 2833 | |
| .3000 | 13:25 | 24.80 | 4.72 | .3000 | .861 |
| .3166 | 13:25 | 24.76 | 4.48 | .3166 | .854 |
| .3333 | 13:25 | 24.72 | 4.64 | .3333 | .847 |
| .4167 | 13:25 | 24.54 | 4.46 | .4167 | .814 |
| .5000 | 13:25 | 24.40 | 4.32 | .5000 | .788 |
| .5833 | 13:25 | 24.28 | 4.20 | .5833 | .766 |
| . 6667 | 13:25 | 24.16 | 4.08 | .6667 | .745 |
| .7 5 00 | 13:25 | 24.06 | 3.98 | .7500 | .726 |

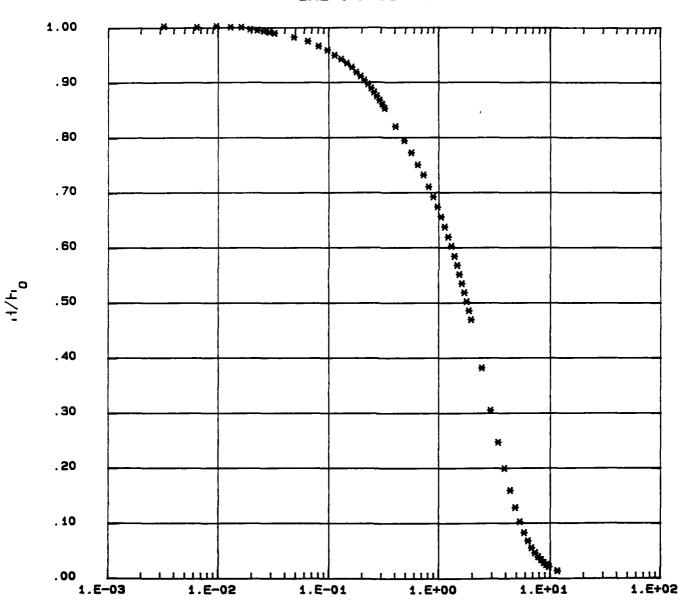
GNL-8 SLUG TEST I

SLUG/SWAB TEST

Ref. Value: 20.08 (Ft) H(O): 5.48 (Ft) T(O): .00 (Min)

| ELAF ED TI ME 'Min' | REAL (THE (hh:mm) | VALUE (Ft) | HD/DRWDN (Ft) | OELTO (IME (Min) | HZH (0) |
|-------------------------------|----------------------|---------------|------------------|---------------------|---------|
| | | | | | |
| .8333 | 13:25 | 23.94 | 3.86 | .8333 | .704 |
| .9167 | 13:25 | 23.84 | 3.76 | .9167 | .686 |
| 1.0000 | 13:26 | 23.74 | 3.66 | 1.0000 | . 568 |
| 1.0833 | 13:26 | 23.64 | 3.56 | 1.0833 | . 50 |
| 1.1667 | 13:26 | 23.54 | 3.46 | 1.1667 | . 531 |
| 1,2500 | 13:26 | 23.44 | 3.36 | 1.2500 | .613 |
| 1,3333 | 13:26 | 23.35 | 3.27 | 1.3333 | .597 |
| 1.4166 | 13:26 | 23.25 | 3.17 | 1.4166 | . 578 |
| 1.5000 | 13:26 | 23.16 | 3.08 | 1.5000 | .562 |
| 1.5833 | 13:26 | 23.07 | 2.99 | 1.5833 | . 546 |
| 1.6667 | 13:26 | 22.98 | 2.90 | 1.6667 | . 529 |
| 1,7500 | 13:26 | 22.89 | 2.81 | 1.7500 | .513 |
| 1.8333 | 13:26 | 22.80 | 2,72 | 1.8333 | . 496 |
| 1.9167 | 13:26 | 22.71 | 2.63 | 1.9167 | . 480 |
| 2,0000 | 13:27 | 22.62 | 2.54 | 2.0000 | . 464 |
| 2.5000 | 13:27 | 22.14 | 2.06 | 2 .50 00 | .376 |
| 3.0000 | 13:28 | 21.72 | 1.64 | 3.0000 | . 299 |
| 3 .5 000 | 13:28 | 21.40 | 1.32 | 3 .500 0 | . 241 |
| 4.0000 | 13:29 | 21.14 | 1.06 | 4.0000 | .193 |
| 4.5000 | 13:29 | 20.92 | | 4.5000 | . 153 |
| 5.0000 | 13:30 | 20.75 | . 67 | 5.0000 | .122 |
| 5.5000 | 13:30 | 20.61 | .53 | 5.5000 | .097 |
| 6.0000 | 13:31 | 20.50 | .42 | 6.0000 | .077 |
| 6.5000 | 13:31 | 20.42 | .34 | 6.5000 | .062 |
| 7.0000 | 13:32 | 20.35 | . 27 | 7.0000 | .049 |
| 7.5000 | 13:32 | 20.30 | .22 | 7.5000 | .040 |
| 8.0000 | 13:33 | 20.26 | .18 | 8.0000 | .033 |
| 8.5000 | 13:33 | 20.23 | .15 | 8.5000 | .027 |
| 9.0000 | 13:34 | 20.20 | .12 | 9.0000 | .022 |
| 9.5000 | 13:34 | 20.18 | .10 | 9.5000 | .018 |
| 10.0000 | 13:35 | 20.16 | .08 | 10.0000 | .015 |
| 12.0000 | 13:37 | 20.12 | .04 | 12.0000 | .007 |

GNL-8 SLUG TEST 2



Time (min)

APPENDIX D ANALYTICAL RESULTS

INSTALLATION RESTORATION PROGRAM

CHEMICAL REPORT
Thu Dec 7 09:42:42 1989

For Parameters :

Installation = Gaithersburg Research Facility
Beginning Date = 01/01/75
Ending Date = 12/7/89
Media Type = Chemical Ground Water (CGW)
Booleans = Y

IR Installation: Gaithersburg Research FacilityPage 1 Analytical Results for Chemical Ground Water From: 01/01/75 and 12/7/89

Site: WELL GNC-5

| SAMPLE SAMPLE TEST DEPTH (ft) DATE METHOD COMPOUND BOOL CONCENTRATION | N UNITS |
|---|------------|
| 35.0 25-may-1989 99 111TCE LT 1.000 | |
| | UGL |
| | UGL |
| | UGL |
| | UGL |
| 35.0 25-may-1989 UM13 124TCB LT 4.420 35.0 25-may-1989 99 12DCE LT 2.200 | UGL |
| 35.0 25-may-1989 UM13 12DCLB LT 7.320 | UGL UGL |
| 35.0 25-may-1989 99 12DCLE LT 1.000 | UGL |
| 35.0 25-may-1989 99 12DCLP LT 3.200 | UGL |
| 35.0 25-may-1989 UM13 13DCLB LT 8.270 | UGL |
| 35.0 25-may-1989 UM13 14DCLB LT 7.970 | UGL |
| 35.0 25-may-1989 UM13 246TCP ND 10.000 | UGL |
| 35.0 25-may-1989 UM13 24DCLP ND 10.000 | UGL |
| 35.0 25-may-1989 UM13 24DMPN ND 10.000 | UGL |
| 35.0 25-may-1989 UM13 24DNP ND 50.000 | UGL |
| 35.0 25-may-1989 UM13 24DNT LT 5.840 | UGL |
| 35.0 25-may-1989 UM13 26DNT LT 5.520 | UGL |
| 35.0 25-may-1989 99 2CLEVE LT 1.600 | UGL |
| 35.0 25-may-1989 UM13 2CLP ND 10.000 | UGL |
| 35.0 25-may-1989 UM13 2CNAP LT 2.070 | UGL |
| 35.0 25-may-1989 UM13 2NP ND 50.000 | UGL |
| 35.0 25-may-1989 UM13 33DCBD ND 20.000 | UGL |
| 35.0 25-may-1989 UM13 46DN2C ND 50.000 | UGL |
| 35.0 25-may-1989 UM13 4BRPPE ND 10.000 | UGL |
| 35.0 25-may-1989 UM13 4CL3C ND 10.000 | UGL |
| 35.0 25-may-1989 UM13 4CLPPE ND 10.000 | UGL |
| 35.0 25-may-1989 UM13 4NP ND 50.000 | UGL |
| 35.0 25-may-1989 UH09 ABHC ND 0.050 | UGL |
| 35.0 25-may-1989 UM13 ABHC ND 3.000 | UGL |
| 35.0 25-may-1989 99 ACROLN ND 100.000 | UGL |
| 35.0 25-may-1989 99 ACRYLO ND 100.000 | UGL |
| 35.0 25-may-1989 UH09 AENSLF ND 0.050 | UGL |
| 35.0 25-may-1989 UM13 AENSLF ND 3.000 | UGL |
| 35.0 25-may-1989 SS06 AG LT 5.450 | UGL |
| 35.0 25-may-1989 UH09 ALDRN LT 0.022 | UGL |
| 35.0 25-may-1989 UM13 ALDRN LT 5.780 | UGL |
| 35.0 25-may-1989 UM13 ANAPNE LT 1.260 | UGL |
| 35.0 25-may-1989 UM13 ANAPYL LT 3.300 | UGL |
| 35.0 25-may-1989 UM13 ANTHRC LT 1.110 | UGL |
| 0.0 25-may-1989 SD11 AS LT 4.190 | UGL |
| 35.0 25-may-1989 UM13 B2CEXM ND 10.000 | UGL |
| 35.0 25-may-1989 UM13 B2CIPE ND 10.000 | UGL |
| 35.0 25-may-1989 UM13 B2CLEE LT 1.500 | UGL |
| 35.0 25-may-1989 UM13 B2EHP LT 32.700 | UGL |
| 35.0 25-may-1989 UM13 BAANTR LT 0.906 | UGL |
| 35.0 25-may-1989 UM13 BAPYR LT 8.290 | UGL |
| 35.0 25-may-1989 UM13 BBFANT LT 2.650 | UGL |
| 35.0 25-may-1989 UH09 BBHC ND 0.050 | UGL |

IR Installation: Gaithersburg Research FacilityPage 2 Analytical Results for Chemical Ground Water From: 01/01/75 and 12/7/89

Site: WELL GNC-5 (continued)

| SAMPLE DEPTH (ft) | SAMPLE) DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------------|------------------|----------------|----------|------|---------------|------------|
| 35.0 | 25-may-1989 | UM13 | ввис | LT | 3.170 | 1101 |
| 35.0 | 25-may-1989 | UM13 | BBZP | ND | 10.000 | ugl ugl |
| 35.0 | 25-may-1989 | SS06 | BE | LT | 2.860 | UGL |
| 35.0 | 25-may-1989 | UH09 | BENSLF | ND | 0.100 | UGL |
| 35.0 | 25-may-1989 | UM13 | BENSLF | ND | 6.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | BENZID | ND | 50.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | BGHIPY | LT | 64.600 | UGL |
| 35.0 | 25-may-1989 | UM13 | BKFANT | LT | 3.280 | UGL |
| 35.0 | 25-may-1989 | 99 | BRDCLM | ND | 5.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | BZALC | ND | 0.100 | UGL |
| 35.0 | 25-may-1989 | 99 | C13DCP | LT | 1.800 | UGL |
| 35.0 | 25-may-1989 | 99 | C2H3CL | LT | 13.000 | UGL |
| 35.0 | 25-may-1989 | 99 | C2H5CL | LT | 6.900 | UGL |
| 35.0 | 25-may-1989 | 99 | C6H6 | LT | 1.700 | UGL |
| 35.0 | 25-may-1989 | 99 | CCL4 | LT | 1.000 | UGL |
| 35.0 | 25-may-1989 | SS06 | CD | | 8.150 | UGL |
| 35.0 | 25-may-1989 | 99 | CH2CL2 | LT | 23.000 | UGL |
| 35.0 | 25-may-1989 | 99 | CH3BR | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | 99 | CH3CL | LT | 1.800 | UGL |
| 35.0 | 25-may-1989 | 99 | CHBR3 | LT | 3.700 | UGL |
| 35.0 | 25-may-1989 | 99 | CHCL3 | LT | 1.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | CHRY | LT | 1.150 | UGL |
| 35.0 | 25-may-1989 | UM13 | CL6BZ | LT | 2.850 | UGL |
| 35.0 | 25-may-1989 | UM13 | CL6CP | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | CL6ET | LT | 13.300 | UGL |
| 35.0 | 25-may-1989 | 99 | CLC6H5 | LT | 1.200 | UGL |
| 35.0 | 25-may-1989 | UH09 | CLDAN | LT | 0.046 | UGL |
| 35.0 | 25-may-1989 | UM13 | CLDAN | LT | 10.200 | UGL |
| 35.0 | 25-may-1989 | SS06 | CR | LT | 4.440 | UGL |
| 35.0 | 25-may-1989 | SS06 | CU | LT | 6.200 | UGL |
| 0.0 | 25-may-1989 | TF19 | CYN | LT | 5.500 | UGL |
| 35.0 | 25-may-1989 | UM13 | DBAHA | LT | 12.300 | UGL |
| 35.0 | 25-may-1989 | UH09 | DBHC | ND | 0.050 | UGL |
| 35.0 | 25-may-1989 | UM13 | DBHC | LT | 621.000 | UGL |
| 35.0 | 25-may-1989 | 99 | DBRCLM | LT | 1.800 | UGL |
| 35.0 | 25-may-1989 | UM13 | DEP | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UHO9 | DLDRN | LT | 0.005 | UGL |
| 35.0 | 25-may-1989 | UM13 | DLDRN | LT | 2.550 | UGL |
| 35.0 | 25-may-1989 | UM13 | DMP | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM1.3 | DNBP | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | DNOP | LT | 21.400 | UGL |
| 35.0 | 25-may-1989 | UHO9 | ENDRN | ND | 0.100 | UGL |
| 35.0 | 25-may-1989 | UM13 | ENDRN | LT | 34.200 | UGL |
| 35.0 | 25-may-1989 | UH09 | ENDRNK | ND | 0.100 | UGL |
| 35.0 | 25-may-1989 | UH09 | ESFS04 | ND | 0.100 | UGL |
| 35.0 | 25-may-1989 | UM13 | ESFS04 | ND | 6.000 | UGL |
| 35.0 | 25-may-1989 | 99 | ETC6H5 | LT | 1.400 | UGL |
| 35.0 | 25-may-1989 | UM13 | FANT | LT | 1.150 | UGL |

IR Installation: Gaithersburg Research FacilityPage 3 Analytical Results for Chemical Ground Water From: 01/01/75 and 12/7/89

Site: WELL GNC-5 (continued)

| SAMPLE DEPTH (ft) | SAMPLE) DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------------|------------------|----------------|----------|------|---------------|-------|
| 35.0 | 25-may-1989 | UM13 | FLRENE | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | HCBD | LT | 7.890 | UGL |
| 35.0 | 25-may-1989 | 99 | HG | | 0.160 | UGL |
| 35.0 | 25-may-1989 | UH09 | HPCL | LT | 0.019 | UGL |
| 35.0 | 25-may-1989 | UM13 | HPCL | LT | 4.910 | UGL |
| 35.0 | 25-may-1989 | UH09 | HPCLE | LT | 0.086 | UGL |
| 35.0 | 25-may-1989 | UM13 | HPCLE | LT | 6.440 | UGL |
| 35.0 | 25-may-1989 | UM13 | ICDPYR | LT | 128.000 | UGL |
| 35.0 | 25-may-1989 | UH09 | ISODR | LT | 0.041 | UGL |
| 35.0 | 25-may-1989 | UM13 | ISOPHR | ND | 0.100 | UGL |
| 35.0 | 25-may-1989 | UH09 | LIN | LT | 0.029 | UGL |
| 35.0 | 25-may-1989 | UM13 | LIN | LT | 26.000 | UGL |
| 35.0 | 25-may-1989 | 99 | MEC6H5 | LT | 1.800 | UGL |
| 35.0 | 25-may-1989 | UH09 | MEXCLR | ND | 0.500 | UGL |
| 35.0 | 25-may-1989 | UM13 | NAP | LT | 3.510 | UGL |
| 35.0 | 25-may-1989 | UM13 | NB | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | SS06 | NI | LT | 15.300 | UGL |
| 35.0 | 25-may-1989 | UM13 | NNDMEA | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | NNDNPA | LT | 5.630 | UGL |
| 35.0 | 25-may-1989 | UM13 | NNDPA | ND | 6.700 | UGL |
| 35.0 | 25-may-1989 | SD11 | PB | LT | 1.700 | UGL |
| 35.0 | 25-may-1989 | UH09 | PCB016 | LT | 0.133 | UGL |
| 35.0 | 25-may-1989 | UM13 | PCB016 | ND | 30.000 | UGL |
| 35.0 | 25-may-1989 | UH09 | PCB221 | ND | 0.500 | UGL |
| 35.0 | 25-may-1989 | UM13 | PCB221 | ND | 30.000 | UGL |
| 35.0 | 25-may-1989 | UH09 | PCB232 | ND | 0.500 | UGL |
| 35.0 | 25-may-1989 | UM13 | PCB232 | ND | 30.000 | UGL |
| 35.0 | 25-may-1989 | UH09 | PCB242 | ND | 0.500 | UGL |
| 35.0 | 25-may-1989 | UM13 | PCB242 | ND | 30.000 | UGL |
| 35.0 | 25-may-1989 | UH09 | PCB248 | ND | 0.500 | UGL |
| 35.0 | 25-may-1989 | UM13 | PCB248 | ND | 30.000 | UGL |
| 35.0 | 25-may-1989 | UH09 | PCB254 | ND | 1.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | PCB254 | ND | 60.000 | UGL |
| 35.0 | 25-may-1989 | UH09 | PCB260 | LT | 0.087 | UGL |
| 35.0 | 25-may-1989 | UM13 | PCB260 | ND | 60.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | PCP | ND | 50.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | PHANTR | LT | 0.759 | UGL |
| 35.0 | 25-may-1989 | UH09 | PPDDD | LT | 0.013 | UGL |
| 35.0 | 25-may-1989 | UM13 | PPDDD | LT | 5.610 | UGL |
| 35.0 | 25-may-1989 | UH09 | PPDDE | LT | 0.022 | UGL |
| 35.0 | 25-may-1989 | UM13 | PPDDE | LT | 11.200 | UGL |
| 35.0 | 25-may-1989 | UH09 | PPDDT | LT | 0.037 | UGL |
| 35.0 | 25-may-1989 | UM13 | PPDDT | LT | 5.070 | UGL |
| 35.0 | 25-may-1989 | UM13 | PYR | LT | 9.380 | UGL |
| 0.0 | 25-may-1989 | SD11 | SB | LT | 2.500 | UGL |
| 0.0 | 25-may-1989 | SD11 | SE | LT | 6.940 | UGL |
| 35.0 | 25-may-1989 | 99 | TCLEA | LT | 7.100 | UGL |
| 35.0 | 25-may-1989 | 99 | TCLEE | LT | 2.300 | UGL |

IR Installation: Gaithersburg Research FacilityPage 4 Analytical Results for Chemical Ground Water From: 01/01/75 and 12/7/89

Site: WELL GNC-5 (continued)

| SAMPLE DEPTH (ft | SAMPLE) DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|---------------------|------------------|----------------|----------|------|---------------|-------|
| 35.0 | 25-may-1989 | SS06 | TL | LT | 59.900 | UGL |
| 35.0 | 25-may-1989 | 99 | TRCLE | LT | 1.000 | UGL |
| 35.0 | 25-may-1989 | UH09 | TXPHEN | ND | 1.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | TXPHEN | ND | 60.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | UNK536 | | 9.530 | UGL |
| 35.0 | 25-may-1989 | UM13 | UNK538 | | 12.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | UNK541 | | 32.500 | UGL |
| 35.0 | 25-may-1989 | UM13 | UNK542 | | 6.150 | UGL |
| 35.0 | 25-may-1989 | UM13 | UNK542 | | 6.890 | UGL |
| 35.0 | 25-may-1989 | UM13 | UNK543 | | 5.430 | UGL |
| 35.0 | 25-may-1989 | UM13 | UNK544 | | 16.400 | UGL |
| 35.0 | 25-may-1989 | SS06 | ZN | | 30.500 | UGL |

Site: WELL GNC-6

| SAMPLE | SAMPLE | TEST | | | | |
|-----------|-------------|-------------|----------|------|---------------|-------|
| DEPTH (ft |) DATE | METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
| | | | | | | |
| 40.0 | 25-may-1989 | 99 | 111TCE | LT | 1.000 | UGL |
| 40.0 | 25-may-1989 | 99 | 112TCE | LT | 1.700 | UGL |
| 40.0 | 25-may-1989 | 99 | 11DCE | LT | 6.800 | UGL |
| 40.0 | 25-may-1989 | 99 | 11DCLE | LT | 2.700 | UGL |
| 40.0 | 25-may-1989 | UM13 | 124TCB | LT | 4.420 | UGL |
| 40.0 | 25-may-1989 | 99 | 12DCE | LT | 2.200 | UGL |
| 40.0 | 25-may-1989 | UM13 | 12DCLB | LT | 7.320 | UGL |
| 40.0 | 25-may-1989 | 99 | 12DCLE | LT | 1.000 | UGL |
| 40.0 | 25-may-1989 | 99 | 12DCLP | LT | 3.200 | UGL |
| 40.0 | 25-may-1989 | UM13 | 13DCLB | LT | 8.270 | UGL |
| 40.0 | 25-may-1989 | UM13 | 14DCLB | LT | 7.970 | UGL |
| 40.0 | 25-may-1989 | UM13 | 246TCP | ND | 10.000 | UGL |
| 40.0 | 25-may-1989 | UM13 | 24DCLP | ND | 10.000 | UGL |
| 40.0 | 25-may-1989 | UM13 | 24DMPN | ND | 10.000 | UGL |
| 40.0 | 25-may-1989 | UM13 | 24DNP | ND | 50.000 | UGL |
| 40.0 | 25-may-1989 | UM13 | 24DNT | LT | 5.840 | UGL |
| 40.0 | 25-may-1989 | UM13 | 26DNT | LT | 5.520 | UGL |
| 40.0 | 25-may-1989 | 99 | 2CLEVE | LT | 1.600 | UGL |
| 40.0 | 25-may-1989 | UM13 | 2CLP | ND | 10.000 | UGL |
| 40.0 | 25-may-1989 | UM13 | 2CNAP | LT | 2.070 | UGL |
| 40.0 | 25-may-1989 | UM13 | 2NP | ND | 50.000 | UGL |
| 40.0 | 25-may-1989 | UM13 | 33DCBD | ND | 20.000 | UGL |
| 40.0 | 25-may-1989 | UM13 | 46DN2C | ND | 50.000 | UGL |
| 40.0 | 25-may-1989 | UM13 | 4BRPPE | ND | 10.000 | UGL |
| 40.0 | 25-may-1989 | UM13 | 4CL3C | ND | 10.000 | UGL |
| 40.0 | 25-may-1989 | UM13 | 4CLPPE | ND | 10.000 | UGL |
| 40.0 | 25-may-1989 | UM13 | 4NP | ND | 50.000 | UGL |
| 40.0 | 25-may-1989 | UH09 | ABHC | ND | 0.050 | UGL |
| 40.0 | 25-may-1989 | UM13 | ABHC | ND | 3.000 | UGL |

IR Installation: Gaithersburg Research FacilityPage 5 Analytical Results for Chemical Ground Water From: 01/01/75 and 12/7/89

(continued) Site: WELL GNC-6

| SAMPLE DEPTH (ft | SAMPLE) DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|---------------------|------------------|----------------|---------------|------|---------------|-------|
| 40.0 | 25-may-1989 | 99 | ACROLN | ND | 100.000 | UGL |
| 40.0 | 25-may-1989 | 99 | ACRYLO | ND | 100.000 | UGL |
| 40.0 | 25-may-1989 | UH09 | AENSLF | ND | 0.050 | UGL |
| 40.0 | 25-may-1989 | UM13 | AENSLF | ND | 3.000 | UGL |
| 40.0 | 25-may-1989 | SS06 | AG | LT | 5.450 | UGL |
| 40.0 | 25-may-1989 | UH09 | ALDRN | LT | 0.022 | UGL |
| 40.0 | 25-may-1989 | UM13 | ALDRN | LT | 5.780 | UGL |
| 40.0 | 25-may-1989 | UM13 | ANAPNE | LT | 1.260 | UGL |
| 40.0 | 25-may-1989 | UM13 | ANAPYL | LT | 3.300 | UGL |
| 40.0 | 25-may-1989 | UM13 | ANTHRC | LT | 1.110 | UGL |
| 0.0 | 25-may-1989 | SD11 | AS | LT | 4.190 | UGL |
| 40.0 | 25-may-1989 | UM13 | B2CEXM | ND | 10.000 | UGL |
| 40.0 | 25-may-1989 | UM13 | B2CIPE | ND | 10.000 | UGL |
| 40.0 | 25-may-1989 | UM13 | B2CLEE | LT | 1.500 | UGL |
| 40.0 | 25-may-1989 | UM13 | B2EHP | LT | 32.700 | UGL |
| 40.0 | 25-may-1989 | UM13 | BAANTR | LT | 0.906 | UGL |
| 40.0 | 25-may-1989 | UM13 | BAPYR | LT | 8.290 | UGL |
| 40.0 | 25-may-1989 | UM13 | BBFANT | LT | 2.650 | UGL |
| 40.0 | 25-may-1989 | UH09 | BBHC | ND | 0.050 | UGL |
| 40.0 | 25-may-1989 | UM13 | BBHC | LT | 3.170 | UGL |
| 40.0 | 25-may-1989 | UM13 | BBZP | ND | 10.000 | UGL |
| 40.0 | 25-may-1989 | SS06 | BE | LT | 2.860 | UGL |
| 40.0 | 25-may-1989 | UH09 | BENSLF | ND | 0.100 | UGL |
| 40.0 | 25-may-1989 | UM13 | BENSLF | ND | 6.000 | UGL |
| 40.0 | 25-may-1989 | UM13 | BENZID | ND | 50.000 | UGL |
| 40.0 | 25-may-1989 | UM13 | BGH .PY | LT | 64.600 | UGL |
| 40.0 | 25-may-1989 | UM13 | BKFANT | LT | 3.280 | UGL |
| 40.0 | 25-may-1989 | 99 | BRDCLM | ND | 5.000 | UGL |
| 40.0 | 25-may-1989 | UM13 | BZALC | ND | 0.100 | UGL |
| 40.0 | 25-may-1989 | 99 | C13DCP | LT | 1.800 | UGL |
| 40.0 | 25-may-1989 | 99 | C2H3CL | LT | 13.000 | UGL |
| 40.0 | 25-may-1989 | 99 | C2H5CL | LT | 6.900 | UGL |
| 40.0 | 25-may-1989 | 99 | C6H6 | LT | 1.700 | UGL |
| 40.0 | 25-may-1989 | 99 | CCL4 | LT | 1.000 | UGL |
| 40.0 | 25-may-1989 | SS06 | CD | | 6.970 | UGL |
| 40.0 | 25-may-1989 | 99 | CH2CL2 | LT | 23.000 | UGL |
| 40.0 | 25-may-1989 | 99 | CH3BR | ND | 10.000 | UGL |
| 40.0 | 25-may-1989 | 99 | CH3CL | LT | 1.800 | UGL |
| 40.0 | 25-may-1989 | 99 | CHBR3 | LT | 3.700 | UGL |
| 40.0 | 25-may-1989 | 99 | CHCL3 | LT | 1.000 | UGL |
| 40.0 | 25-may-1989 | UM13 | CHRY | LT | 1.150 | UGL |
| 40.0 | 25-may-1989 | UM13 | CL6BZ | LT | 2.850 | UGL |
| 40.0 | 25-may-1989 | UM13 | CL6CP | ND | 10.000 | UGL |
| 40.0 | 25-may-1989 | UM13 | CL6ET | LT | 13.300 | UGL |
| 40.0 | 25-may-1989 | 99 | CLC6H5 | LT | 1.200 | UGL |
| 40.0 | 25-may-1989 | UHO9 | CLDAN | LT | 0.046 | UGL |
| 40.0 | 25-may-1989 | UM13 | CLDAN | LT | 10.200 | UGL |
| 40.0 | 25-may-1989 | SS06 | CR | LT | 4.440 | UGL |

IR Installation: Gaithersburg Research FacilityPage 6 Analytical Results for Chemical Ground Water From: 01/01/75 and 12/7/89

Site: WELL GNC-6 (continued)

| SAMPLE DEPTH (ft) | SAMPLE) DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------------|------------------|----------------|----------|------|---------------|-------|
| DEL 111 (10) | | | | | | |
| 40.0 | 25-may-1989 | SS06 | CU | LT | 6.200 | UGL |
| 0.0 | 25-may-1989 | TF19 | CYN | LT | 5.500 | UGL |
| 40.0 | 25-may-1989 | UM13 | DBAHA | LT | 12.300 | UGL |
| 40.0 | 25-may-1989 | UH09 | DBHC | ND | 0.050 | UGL |
| 40.0 | 25-may-1989 | UM13 | DBHC | LT | 621.000 | UGL |
| 40.0 | 25-may-1989 | 99 | DBRCLM | LT | 1.800 | UGL |
| 40.0 | 25-may-1989 | UM13 | DEP | ND | 10.000 | UGL |
| 40.0 | 25-may-1989 | UH09 | DLDRN | LT | 0.005 | UGL |
| 40.0 | 25-may-1989 | UM13 | DLDRN | LT | 2.550 | UGL |
| 40.0 | 25-may-1989 | UM13 | DMP | ND | 10.000 | UGL |
| 40.0 | 25-may-1989 | UM13 | DNBP | ND | 10.000 | UGL |
| 40.0 | 25-may-1989 | UM13 | DNOP | | 23.700 | UGL |
| 40.0 | 25-may-1989 | UH09 | ENDRN | ND | 0.100 | UGL |
| 40.0 | 25-may-1989 | UM13 | ENDRN | LT | 34.200 | UGL |
| 40.0 | 25-may-1989 | UH09 | ENDRNK | ND | 0.100 | UGL |
| 40.0 | 25-may-1989 | UH09 | ESFSO4 | ND | 0.100 | UGL |
| 40.0 | 25-may-1989 | UM13 | ESFS04 | ND | 6.000 | UGL |
| 40.0 | 25-may-1989 | 99 | etc6H5 | LT | 1.400 | UGL |
| 40.0 | 25-may-1989 | UM13 | FANT | LT | 1.150 | UGL |
| 40.0 | 25-may-1989 | UM13 | FLRENE | ND | 10.000 | UGL |
| 40.0 | 25-may-1989 | UM13 | HCBD | LT | 7.890 | UGL |
| 40.0 | 25-may-1989 | 99 | HG | | 0.110 | UGL |
| 40.0 | 25-may-1989 | UH09 | HPCL | LT | 0.019 | UGL |
| 40.0 | 25-may-1989 | UM13 | HPCL | LT | 4.910 | UGL |
| 40.0 | 25-may-1989 | UH09 | HPCLE | LT | 0.086 | UGL |
| 40.0 | 25-may-1989 | UM13 | HPCLE | LT | 6.440 | UGL |
| 40.0 | 25-may-1989 | UM13 | ICDPYR | LT | 128.000 | UGL |
| 40.0 | 25-may-1989 | UHO9 | ISODR | LT | 0.041 | UGL |
| 40.0 | 25-may-1989 | UM13 | ISOPHR | ND | 0.100 | UGL |
| 40.0 | 25-may-1989 | UHO9 | LIN | LT | 0.029 | UGL |
| 40.0 | 25-may-1989 | UM13 | LIN | LT | 26.000 | UGL |
| 40.0 | 25-may-1989 | 99 | MEC6H5 | LT | 1.800 | UGL |
| 40.0 | 25-may-1989 | UHO9 | MEXCLR | ND | 0.500 | UGL |
| 40.0 | 25-may-1989 | UM13 | NAP | LT | 3.510 | UGL |
| 40.0 | 25-may-1989 | UM13 | NB | ND | 10.000 | UGL |
| 40.0 | 25-may-1989 | SS06 | NI | LT | 15.300 | UGL |
| 40.0 | 25-may-1989 | UM13 | NNDMEA | ND | 10.000 | UGL |
| 40.0 | 25-may-1989 | UM13 | NNDNPA | LT | 5.630 | UGL |
| 40.0 | 25-may-1989 | т м1.3 | NNDPA | ND | 6.700 | UGL |
| 40.0 | 25-may-1989 | SD11 | PB | LT | 1.700 | UGL |
| 40.0 | 25-may-1989 | UH09 | PCB016 | LT | 0.133 | UGL |
| 40.0 | 25-may-1989 | UM13 | PCB016 | ND | 30.000 | UGL |
| 40.0 | 25-may-1989 | UH09 | PCB221 | ND | 0.500 | UGL |
| 40.0 | 25-may-1989 | UM13 | PCB221 | ND | 30.000 | UGL |
| 40.0 | 25-may-1989 | UH09 | PCB232 | ND | 0.500 | UGL |
| 40.0 | 25-may-1989 | UM13 | PCB232 | ND | 30.000 | UGL |
| 40.0 | 25-may-1989 | UH09 | PCB242 | ND | 0.500 | UGL |
| 40.0 | 25-may-1989 | UM13 | PCB242 | ND | 30.000 | UGL |

IR Installation: Gaithersburg Research FacilityPage 7 Analytical Results for Chemical Ground Water From: 01/01/75 and 12/7/89

Site: WELL GNC-6 (continued)

| SAMPLE DEPTH (ft) | SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------------|----------------|----------------|----------|------|-----------------|------------|
| DEPIR (10) | | | | | | |
| 40.0 | 25-may-1989 | UH09 | PCB248 | ND | 0.500 | UGL |
| 40.0 | 25-may-1989 | UM13 | PCB248 | ND | 30.000 | UGL |
| 40.0 | 25-may-1989 | UH09 | PCB254 | ND | 1.000 | UGL |
| 40.0 | 25-may-1989 | UM13 | PCB254 | ND | 60.000 | UGL |
| 40.0 | 25-may-1989 | UH09 | PCB260 | LT | 0.087 | UGL |
| 40.0 | 25-may-1989 | UM13 | PCB260 | ND | 60.000 | UGL |
| 40.0 | 25-may-1989 | UM13 | PCP | ND | 50.000 | UGL |
| 40.0 | 25-may-1989 | UM13 | PHANTR | LT | 0.759 | UGL |
| 40.0 | 25-may-1989 | UH09 | PPDDD | LT | 0.013 | UGL |
| 40.0 | 25-may-1989 | UM13 | PPDDD | LT | 5.610 | UGL |
| 40.0 | 25-may-1989 | UH09 | PPDDE | LT | 0.022 | UCL |
| 40.0 | 25-may-1989 | UM13 | PPDDE | LT | 11.200 | UGL |
| 40.0 | 25-may-1989 | UH09 | PPDDT | LT | 0.037 | UGL |
| 40.0 | 25-may-1989 | UM13 | PPDDT | LT | 5.070 | UGL |
| 40.0 | 25-may-1989 | UM13 | PYR | LT | 9.380 | UGL |
| 0.0 | 25-may-1989 | SD11 | SB | LT | 2.500 | UGL |
| 0.0 | 25-may-1989 | SD11 | SE | LT | 6.940 | UGL |
| 40.0 | 25-may-1989 | 99 | TCLEA | LT | 7.100 | UGL |
| 40.0 | 25-may-1989 | 99 | TCLEE | LT | 2.300 | UGL |
| 40.0 | 25-may-1989 | SS06 | TL | LT | 59.900 | UGL |
| 40.0 | 25-may-1989 | 99 | TRCLE | LT | 1.000 | UGL |
| 40.0 | 25-may-1989 | UH09 | TXPHEN | ND | 1.000 | UGL |
| 40.0 | 25-may-1989 | UM13 | TXPHEN | ND | 60.000 | UGL |
| 40.0 | 25-may-1989 | UM13 | UNK536 | | 7.750 | UGL UGL |
| 40.0 | 25-may-1989 | UM13 | UNK538 | | 9.250 | |
| 40.0 | 25-may-1989 | UM13 | UNK541 | | 31.000 | UGL UGL |
| 40.0 | 25-may-1989 | UM13 | UNK542 | | 5.150 | UGL |
| 40.0 | 25-may-1989 | UM13 | UNK542 | | 7.700 | UGL |
| 40.0 | 25-may-1989 | UM13 | UNK543 | | 4.420 | UGL |
| 40.0 | 25-may-1989 | UM13 | UNK544 | | 17.100 | UGL |
| 40.0 | 25-may-1989 | UM13 | UNK619 | | 8.620 16.200 | UGL |
| 40.0 | 25-may-1989 | UM13 | UNK620 | | | UGL |
| 40.0 | 25-may-1989 | UM13 | UNK620 | | 9.030 4.310 | UGL |
| 40.0 | 25-may-1989 | UM13 | UNK620 | | | UGL |
| 40.0 | 25-may-1989 | UM13 | UNK621 | | 15.400 | UGL |
| 40.0 | 25-may-1989 | UM13 | UNK621 | | 11.900 | UGL |
| 40.0 | 25-may-1989 | UM13 | UNK623 | | 10.200 | UGL |
| 40.0 | 25-may-1989 | UM13 | UNK628 | | 5.800 9.800 | UGL |
| 40.0 | 25-may-1989 | UM13 | UNK631 | | | UGL |
| 40.0 | 25-may-1989 | UM13 | UNK636 | | 5.060 | UGL |
| 40.0 | 25-may-1989 | UM13 | UNK648 | | 4.090 | UGL |
| 40.0 | 25-may-1989 | UM13 | UNK655 | | 8.490 19.400 | UGL |
| 40.0 | 25-may-1989 | SS06 | ZN | | 13.400 | 0.01 |
| | | | | | | |

IR Installation: Gaithersburg Research FacilityPage 8 Analytical Results for Chemical Ground Water From: 01/01/75 and 12/7/89

Site: WELL GNC-7

| SAMPLE DEPTH (ft) | SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------------|----------------|----------------|---------------|------|----------------|-------|
| 18.0 | 25-may-1989 | 99 | 111TCE | LT | 1.000 | UGL |
| 18.0 | 25-may-1989 | 99 | 112TCE | LT | 1.700 | UGL |
| 18.0 | 25-may-1989 | 99 | 11DCE | LT | 6.800 | UGL |
| 18.0 | 25-may-1989 | 99 | 11DCLE | LT | 2.700 | UGL |
| 18.0 | 25-may-1989 | UM13 | 124TCB | LT | 4.420 | UGL |
| 18.0 | 25-may-1989 | 99 | 12DCE | LT | 2.200 | UGL |
| 18.0 | 25-may-1989 | UM13 | 12DCLB | LT | 7.320 | UGL |
| 18.0 | 25-may-1989 | 99 | 12DCLE | LT | 1.000 | UGL |
| 18.0 | 25-may-1989 | 99 | 12DCLP | LT | 3.200 | UGL |
| 18.0 | 25-may-1989 | UM13 | 13DCLB | LT | 8.270 | UGL |
| 18.0 | 25-may-1989 | UM13 | 14DCLB | LT | 7.970 | UGL |
| 18.0 | 25-may-1989 | UM13 | 246TCP | ND | 10.000 | UGL |
| 18.0 | 25-may-1989 | UM13 | 24DCLP | ND | 10.000 | UGL |
| 18.0 | 25-may-1989 | UM13 | 24DMPN | ND | 10.000 | UGL |
| 18.0 | 25-may-1989 | UM13 | 24DNP | ND | 50.000 | UGL |
| 18.0 | 25-may-1989 | UM13 | 24DNT | LT | 5.840 | UGL |
| 18.0 | 25-may-1989 | UM13 | 26DNT | LT | 5.520 | UGL |
| 18.0 | 25-may-1989 | 99 | 2CLEVE | LT | 1.600 | UGL |
| 18.0 | 25-may-1989 | UM13 | 2CLP | ND | 10.000 | UGL |
| 18.0 | 25-may-1989 | UM13 | 2CNAP | LT | 2.070 | UGL |
| 18.0 | 25-may-1989 | UM13 | 2NP | ND | 50 .000 | UGL |
| 18.0 | 25-may-1989 | UM13 | 33DCBD | ND | 20.000 | UGL |
| 18.0 | 25-may-1989 | UM13 | 46DN2C | ND | 50.000 | UGL |
| 18.0 | 25-may-1989 | UM13 | 4BRPPE | ND | 10.000 | UGL |
| 18.0 | 25-may-1989 | UM13 | 4CL3C | ND | 10.000 | UGL |
| 18.0 | 25-may-1989 | UM13 | 4CLPPE | ND | 10.000 | UGL |
| 18.0 | 25-may-1989 | UM13 | 4NP | ND | 50.000 | UGL |
| 18.0 | 25-may-1989 | UH09 | ABHC | ND | 0.050 | UGL |
| 18.0 | 25-may-1989 | UM13 | ABHC | ND | 3.000 | UGL |
| 18.0 | 25-may-1989 | 99 | ACROLN | ND | 100.000 | UGL |
| 18.0 | 25-may-1989 | 99 | ACRYLO | ND | 100.000 | UGL |
| 18.0 | 25-may-1989 | UH09 | AENSLF | ND | 0.050 | UGL |
| 18.0 | 25-may-1989 | UM13 | aenslf | ND | 3.000 | UGL |
| 18.0 | 25-may-1989 | SS06 | AG | LT | 5.450 | UGL |
| 18.0 | 25-may-1989 | UH09 | ALDRN | LT | 0.022 | UGL |
| 18.0 | 25-may-1989 | UM13 | ALDRN | LT | 5.780 | UGL |
| 18.0 | 25-may-1989 | UM13 | ANAPNE | LT | 1.260 | UGL |
| 18.0 | 25-may-1989 | UM13 | ANAPYL | LT | 3.300 | UGL |
| 18.0 | 25-may-1989 | UM13 | ANTHRC | LT | 1.110 | UGL |
| 0.0 | 25-may-1989 | SD11 | AS | LT | 4.190 | UGL |
| 18.0 | 25-may-1989 | UM13 | B2CEXM | ND | 10.000 | UGL |
| 18.0 | 25-may-1989 | UM13 | B2CIPE | ND | 10.000 | UGL |
| 18.0 | 25-may-1989 | UM13 | B2CLEE | LT | 1.500 | UGL |
| 18.0 | 25-may-1989 | UM13 | B2EHP | LT | 32.700 | UGL |
| 18.0 | 25-may-1989 | UM13 | BAANTR | LT | 0.906 | UGL |
| 18.0 | 25-may-1989 | UM13 | BAPYR | LT | 8.290 | UGL |
| 18.0 | 25-may-1989 | UM13 | BBFANT | LΤ | 2.650 | UGL |
| 18.0 | 25-may-1989 | UH09 | BBHC | ND | 0.050 | UGL |

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Analytical Results for Chemical Ground Water From: 01/01/75 and 12/7/89

Site: WELL GNC-7 (continued)

| SAMPLE DEPTH (ft | • | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|---------------------|-------------|----------------|----------|------|---------------|-------|
| 18.0 | 25-may-1989 | UM13 | ввис | LT | 3.170 | UGL |
| 18.0 | 25-may-1989 | UM13 | BBZP | ND | 10.000 | UGL |
| 18.0 | 25-may-1989 | SS06 | BE | LT | 2.860 | UGL |
| 18.0 | 25-may-1989 | UH09 | BENSLF | ND | 0.100 | UGL |
| 18.0 | 25-may-1989 | UM13 | BENSLF | ND | 6.000 | UGL |
| 18.0 | 25-may-1989 | UM13 | BENZID | ND | 50.000 | UGL |
| 18.0 | 25-may-1989 | UM13 | BGHIPY | LT | 64.600 | UGL |
| 18.0 | 25-may-1989 | UM13 | BKFANT | LT | 3.280 | UGL |
| 18.0 | 25-may-1989 | 99 | BRDCLM | ND | 5.000 | UGL |
| 18.0 | 25-may-1989 | UM13 | BZALC | ND | 0.100 | UGL |
| 18.0 | 25-may-1989 | 99 | C13DCP | LT | 1.800 | UGL |
| 18.0 | 25-may-1989 | 99 | C2H3CL | LT | 13.000 | UGL |
| 18.0 | 25-may-1989 | 99 | C2H5CL | LT | 6.900 | UGL |
| 18.0 | 25-may-1989 | 99 | C6H6 | LT | 1.700 | UGL |
| 18.0 | 25-may-1989 | 99 | CCL4 | LT | 1.000 | UGL |
| 18.0 | 25-may-1989 | SS06 | CD | | 6.650 | UGL |
| 18.0 | 25-may-1989 | 99 | CH2CL2 | LT | 23.000 | UGL |
| 18,0 | 25-may-1989 | 99 | CH3BR | ND | 10.000 | UGL |
| 18.0 | 25-may-1989 | 99 | CH3CL | LT | 1.800 | UGL |
| 18.0 | 25-may-1989 | 99 | CHBR3 | LT | 3.700 | UGL |
| 18.0 | 25-may-1989 | 99 | CHCL3 | LT | 1.000 | UGL |
| 18.0 | 25-may-1989 | UM13 | CHRY | LT | 1.150 | UGL |
| 18.0 | 25-may-1989 | UM13 | CL6BZ | LT | 2.850 | UGL |
| 18.0 | 25-may-1989 | UM13 | CL6CP | ND | 10.000 | UGL |
| 18.0 | 25-may-1989 | UM13 | CL6ET | LT | 13.300 | UGL |
| 18.0 | 25-may-1989 | 99 | CLC6H5 | LT | 1.200 | UGL |
| 18.0 | 25-may-1989 | UH09 | CLDAN | LT | 0.046 | UGL |
| 18.0 | 25-may-1989 | UM13 | CLDAN | LT | 10.200 | UGL |
| 18.0 | 25-may-1989 | S S06 | CR | LT | 4.440 | UGL |
| 18.0 | 25-may-1989 | SS06 | CU | LT | 6.200 | UGL |
| 0.0 | 25-may-1989 | TF19 | CYN | LT | 5.500 | UGL |
| 18.0 | 25-may-1989 | UM13 | DBAHA | LT | 12.300 | UGL |
| 18.0 | 25-may-1989 | UH09 | DBHC | ND | 0.050 | UGL |
| 18.0 | 25-may-1989 | UM13 | DBHC | LT | 621.000 | UGL |
| 18.0 | 25-may-1989 | 99 | DBRCLM | LT | 1.800 | UGL |
| 18.0 | 25-may-1989 | UM13 | DEP | ND | 10.000 | UGL |
| 18.0 | 25-may-1989 | UH09 | DLDRN | LT | 0.005 | UGL |
| 18.0 | 25-may-1989 | UM13 | DLDRN | LT | 2.550 | UGL |
| 18.0 | 25-may-1989 | UM13 | DMP | ND | 10.000 | UGL |
| 18.0 | 25-may-1989 | UM13 | DNBP | ND | 10.000 | UGL |
| 18.0 | 25-may-1989 | UM13 | DNOP | | 36.800 | UGL |
| 18.0 | 25-may-1989 | UH09 | ENDRN | ND | 0.100 | UGL |
| 18.0 | 25-may-1989 | UM13 | ENDRN | LT | 34.200 | UGL |
| 18.0 | 25-may-1989 | UHO9 | ENDRNK | ND | 0.100 | UGL |
| 18.0 | 25-may-1989 | UHO9 | ESFS04 | ND | 0.100 | UGL |
| 18.0 | 25-may-1989 | UM13 | ESFS04 | ND | 6.000 | UGL |
| 18.0 | 25-may-1989 | 99 | ETC6H5 | LT | 1.400 | UGL |
| 18.0 | 25-may-1989 | UM13 | FANT | LT | 1.150 | UGL |

IR Installation: Gaithersburg Research Facilityrage to Analytical Results for Chemical Ground Water From: 01/01/75 and 12/7/89

(continued) Site: WELL GNC-7

| SAMPLE DEPTH (ft | SAMPLE) DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|---------------------|----------------------------|----------------|------------------|----------|----------------|------------|
| DEFIN (IC | | | | | | UGL |
| 18.0 | 25-may-1989 | UM13 | FLRENE | ND | 10.000 | UGL |
| 18.0 | 25-may-1989 | UM13 | HCBD | LT | 7.890 | UGL |
| 18.0 | 25-may-1989 | 99 | HG | | 0.100 0.019 | UGL |
| 18.0 | 25-may-1989 | UH09 | HPCL | LT | 4.910 | UGL |
| 18.0 | 25-may-1989 | UM13 | HPCL | LT | 0.086 | UGL |
| 18.0 | 25-may-1989 | UH09 | HPCLE | LT | 6.440 | UGL |
| 18.0 | 25-may-1989 | UM13 | HPCLE | LT | 128.000 | UGL |
| 18.0 | 25-may-1989 | UM13 | ICDPYR | LT LT | 0.041 | UGL |
| 18.0 | 25-may-1989 | UH09 | ISODR | ND | 0.100 | UGL |
| 18.0 | 25-may-1989 | UM13 | ISOPHR | LT | 0.029 | UGL |
| 18.0 | 25-may-1989 | UH09 | LIN | LT | 26.000 | UGL |
| 18.0 | 25-may-1989 | UM13 | LIN | LT | 1.800 | UGL |
| 18.0 | 25-may-1989 | 99 | MEC6H5 MEXCLR | ND | 0.500 | UGL |
| 18.0 | 25-may-1989 | UH09 | NAP | LT | 3.510 | UGL |
| 18.0 | 25-may-1989 | UM13 | NA P | ND | 10.000 | UGL |
| 18.0 | 25-may-1989 | UM13 | NI | 142 | 33.300 | UGL |
| 18.0 | 25-may-1989 | SS06 | NNDMEA | ND | 10.000 | UGL |
| 18.0 | 25-may-1989 | UM13 | NNDNPA | LT | 5.630 | UGL |
| 18.0 | 25-may-1989 | UM13 | NNDPA | ND | 6.700 | UGL |
| 18.0 | 25-may-1989 | UM13 | PB | LT | 1.700 | UGL |
| 18.0 | 25-may-1989 | SD11 UH09 | PCB016 | LT | 0.133 | UGL |
| 18.0 | 25-may-1989 | UM13 | PCB016 | ND | 30.000 | UGL |
| 18.0 | 25-may-1989 | UHO9 | PCB221 | ND | 0.500 | UGL |
| 18.0 | 25-may-1989 | UM13 | PCB221 | ND | 30.000 | UGL |
| 18.0 | 25-may-1989 | UH09 | PCB232 | ND | 0.500 | UGL |
| 18.0 | 25-may-1989 | UM13 | PCB232 | ND | 30.000 | UGL |
| 18.0 | 25-may-1989 25-may-1989 | UH09 | PCB242 | ND | 0.500 | UGL |
| 18.0 | 25-may-1989 | UM13 | PCB242 | ND | 30.000 | UGL |
| 18.0 | 25-may-1989 | UH09 | PCB248 | ND | 0.500 | UGL |
| 18.0 18.0 | 25-may-1989 | UM13 | PCB248 | ND | 30.000 | UGL |
| 18.0 | 25-may-1989 | UH09 | PCB254 | ND | 1.000 | UGL |
| 18.0 | 25-may-1989 | UM13 | PCB254 | ND | 60.000 | UGL |
| 18.0 | 25-may-1989 | UH09 | PCB260 | LT | 0.087 | UGL |
| 18.0 | 25-may-1989 | UM13 | PCB260 | ND | 60.000 | UGL |
| 18.0 | 25-may-1989 | UM13 | PCP | ND | 50.000 | UGL |
| 18.0 | 25-may-1989 | UM13 | PHANTR | LT | 0.759 | UGL |
| 18.0 | 25-may-1989 | UH09 | PPDDD | LT | 0.013 | UGL |
| 18.0 | 25-may-1989 | UM13 | PPDDD | LT | 5.610 | UGL UGL |
| 18.0 | 25-may-1989 | UH09 | PPDDE | LŢ | 0.022 | |
| 18.0 | 25-may-1989 | UM13 | PPDDE | LŢ | 11.200 | UGL |
| 18.0 | 25-may-1989 | UH09 | PPDDT | LŢ | 0.037 | |
| 18.0 | 25-may-1989 | UM13 | \mathtt{PPDDT} | ĽΪ | 5.070 | UGL UGL |
| 18.0 | 25-may-1989 | UM13 | PYR | LŢ | 9.380 | UGL |
| 0.0 | 25-may-1989 | SD11 | SB | LT | 2.500 | UGL |
| 0.0 | 25-may-1989 | SD11 | SE | LT | 6.940 | UGL |
| 18.0 | 25-may-1989 | 99 | TCLEA | LT | 7.100 2.300 | UGL |
| 18.0 | 25-may-1989 | 99 | TCLEE | LT | 2.300 | COL |

IR Installation: Gaithersburg Research FacilityPage 11 Analytical Results for Chemical Ground Water From: 01/01/75 and 12/7/89

Site: WELL GNC-7 (continued)

| SAMPLE | SAMPLE | TEST | | | | |
|----------|-------------|--------|----------|------|---------------|-------|
| DEPTH (f | t) DATE | METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
| | | | | | | |
| 18.0 | 25-may-1989 | SS06 | TL | LT | 59.900 | UGL |
| 18.0 | 25-may-1989 | 99 | TRCLE | LT | 1.000 | UGL |
| 18.0 | 25-may-1989 | UH09 | TXPHEN | ND | 1.000 | UGL |
| 18.0 | 25-may-1989 | UM13 | TXPHEN | ND | 60.000 | UGL |
| 18.0 | 25-may-1989 | UM13 | UNK536 | | 11.400 | UGL |
| 18.0 | 25-may-1989 | UM13 | UNK538 | | 11.600 | UGL |
| 18.0 | 25-may-1989 | UM13 | UNK541 | | 34.800 | UGL |
| 18.0 | 25-may-1989 | UM13 | UNK542 | | 8.610 | UGL |
| 18.0 | 25-may-1989 | UM13 | UNK543 | | 6.800 | UGL |
| 18.0 | 25-may-1989 | UM13 | UNK543 | | 5.910 | UGL |
| 18.0 | 25-may-1989 | UM13 | UNK544 | | 17.700 | UGL |
| 18.0 | 25-may-1989 | UM13 | UNK619 | | 20.200 | UGL |
| 18.0 | 25-may-1989 | UM13 | UNK619 | | 11.600 | UGL |
| 18.0 | 25-may-1989 | UM13 | UNK620 | | 34.300 | UGL |
| 18.0 | 25-may-1989 | UM13 | UNK620 | | 20.200 | UGL |
| 18.0 | 25-may-1989 | UM13 | UNK620 | | 11.400 | UGL |
| 18.0 | 25-may-1989 | UM13 | UNK621 | | 32.200 | UGL |
| 18.0 | 25-may-1989 | UM13 | UNK621 | | 25.500 | UGL |
| 18.0 | 25-may-1989 | UM13 | UNK623 | | 20.200 | UGL |
| 18.0 | 25-may-1989 | UM13 | UNK628 | | 10.500 | UGL |
| 18.0 | 25-may-1989 | UM13 | UNK630 | | 17.400 | UGL |
| 18.0 | 25-may-1989 | UM13 | UNK648 | | 7.560 | UGL |
| 18.0 | 25-may-1989 | UM13 | UNK655 | | 11.400 | UGL |
| 18.0 | 25-may-1989 | SS06 | ZN | | 19.400 | UGL |

Site: WELL GNC-8

| SAMPLE DEPTH (ft | SAMPLE) DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|---------------------|------------------|----------------|----------|------|---------------|-------|
| ` | · | | | | | |
| 25.0 | 25-may-1989 | 99 | 111TCE | LT | 1.000 | UGL |
| 25.0 | 25-may-1989 | 99 | 112TCE | LT | 1.700 | UGL |
| 25.0 | 25-may-1989 | 99 | 11DCE | LT | 6.800 | UGL |
| 25.0 | 25-may-1989 | 99 | 11DCLE | LT | 2.700 | UGL |
| 25.0 | 25-may-1989 | UM13 | 124TCB | LT | 4.420 | UGL- |
| 25.0 | 25-may-1989 | 99 | 12DCE | LT | 2.200 | UGL |
| 25.0 | 25-may-1989 | UM13 | 12DCLB | LT | 7.320 | UGL |
| 25.0 | 25-may-1989 | 99 | 12DCLE | LT | 1.000 | UGL |
| 25.0 | 25-may-1989 | 99 | 12DCLP | LT | 3.200 | UGL |
| 25.0 | 25-may-1989 | UM13 | 13DCLB | LT | 8.270 | UGL |
| 25.0 | 25-may-1989 | UM13 | 14DCLB | LT | 7.970 | UGL |
| 25.0 | 25-may-1989 | UM13 | 246TCP | ND | 10.000 | UGL |
| 25.0 | 25-may-1989 | UM13 | 24DCLP | ND | 10.000 | UGL |
| 25.0 | 25-may-1989 | UM13 | 24DMPN | ND | 10.000 | UGL |
| 25.0 | 25-may-1989 | UM13 | 24DNP | ND | 50.000 | UGL |
| 25.0 | 25-may-1989 | UM13 | 24DNT | LT | 5.840 | UGL |
| 25.0 | 25-may-1989 | UM13 | 26DNT | LT | 5.520 | UGL |

IR Installation: Gaithersburg Research FacilityPage 12 Analytical Results for Chemical Ground Water From: 01/01/75 and 12/7/89

Site: WELL GNC-8 (continued)

| SAMPLE DEPTH (1 | SAMPLE ft) DATE | TEST METHOD | COMPOUND | Poor | GONGENERAL | |
|--------------------|--------------------|----------------|---------------|------|------------------|------------|
| | | | | BOOL | CONCENTRATION | UNITS |
| 25.0 | 25-may-1989 | 99 | 2CLEVE | LT | 1.600 | ~ |
| 25.0 | 25-may-1989 | UM13 | 2CLP | ND | 10.000 | UGL |
| 25.0 | 25-may-1989 | UM13 | 2CNAP | LT | 2.070 | UGL |
| 25.0 | 25-may-1989 | UM13 | 2NP | ND | 50.000 | UGL |
| 25.0 | 25-may-1989 | UM13 | 33DCBD | ND | 20.000 | UGL |
| 25.0 | 25-may-1989 | UM13 | 46DN2C | ND | 50.000 | UGL |
| 25.0 | 25-may-1989 | UM13 | 4BRPPE | ND | 10.000 | UGL |
| 25.0 | 25-may-1989 | UM13 | 4CL3C | ND | 10.000 | UGL |
| 25.0 | 25-may-1989 | UM13 | 4CLPPE | ND | 10.000 | UGL |
| 25.0 | 25-may-1989 | UM13 | 4NP | ND | 50.000 | UGL |
| 25.0 | 25-may-1989 | UH09 | ABHC | ND | 0.050 | UGL |
| 25.0 | 25-may-1989 | UM13 | ABHC | ND | 3.000 | UGL |
| 25.0 | 25-may-1989 | 99 | ACROLN | ND | 100.000 | UGL |
| 25.0 | 25-may-1989 | 99 | ACRYLO | ND | 100.000 | UGL |
| 25.0 | 25-may-1989 | UHO9 | AENSLF | ND | 0.050 | UGL |
| 25.0 | 25-may-1989 | UM13 | AENSLF | ND | 3.000 | UGL |
| 25.0 | 25-may-1989 | SS06 | AG | LT | 5.450 | ugl ugl |
| 25.0 | 25-may-1989 | UH09 | ALDRN | LT | 0.022 | |
| 25.0 | 25-may-1989 | UM13 | ALDRN | LT | 5.780 | ugl ugl |
| 25.0 | 25-may-1989 | UM13 | ANAPNE | LT | 1.260 | UGL |
| 25.0 | 25-may-1989 | UM13 | ANAPYL | LT | 3.300 | UGL |
| 25.0 | 25-may-1989 | UM13 | ANTHRC | LT | 1.110 | UGL |
| 0.0 | 25-may-1989 | SD11 | AS | LT | 4.190 | UGL |
| 25.0 | 25-may-1989 | UM13 | B2CEXM | ND | 10.000 | UGL |
| 25.0 | 25-may-1989 | UM13 | B2CIPE | ND | 10.000 | UGL |
| 25.0 | 25-may-1989 | UM13 | B2CLEE | LT | 1.500 | UGL |
| 25.0 | 25-may-1989 | UM13 | B2EHP | LT | 32.700 | UGL |
| 25.0 | 25-may-1989 | UM13 | BAANTR | LT | 0.906 | UGL |
| 25.0 | 25-may-1989 | UM13 | BAPYR | LT | 8.290 | UGL |
| 25.0 | 25-may-1989 | UM13 | BBFANT | LT | 2.650 | UGL |
| 25.0 | 25-may-1989 | UH09 | BBHC | ND | 0.050 | UGL |
| 25.0 | 25-may-1989 | UM13 | BBHC | LT | 3.170 | UGL |
| 25.0 | 25-may-1989 | UM13 | BBZP | ND | 10.000 | UGL |
| 25.0 | 25-may-1989 | SS06 | BE | LT | 2.860 | UGL |
| 25.0 | 25-may-1989 | UH09 | BENSLF | ND | 0.100 | UGL |
| 25.0 | 25-may-1989 | UM13 | BENSLF | ND | 6.000 | UGL |
| 25.0 | 25-may-1989 | UM13 | BENZID | ND | 50.000 | UGL |
| 25.0 25.0 | 25 may-1989 | UM13 | BGHIPY | LT | 64.600 | UGL |
| | 25-may-1989 | UM13 | BKFANT | LT | 3.280 | UGL |
| 25.0 | 25-may-1989 | 99 | BRDCLM | ND | 5.000 | UGL |
| 25.0 | 25-may-1989 | UM13 | BZALC | ND | 0.100 | UGL |
| 25.0 | 25-may-1989 | 99 | C13DCP | LT | 1.800 | UGL |
| 25.0 | 25-may-1989 | 99 | C2H3CL | LT | 13.000 | UGL |
| 25.0 | 25-may-1989 | 99 | C2H5CL | LT | 6.900 | UGL |
| 25.0 | 25-may-1989 | 99 | C6H6 | LT | 1.700 | UGL |
| 25.0 | 25-may-1989 | 99 | CCL4 | LT | 1.000 | UGL |
| 25.0 | 25-may-1989 | SS06 | CD | LT | 4.390 | UGL |
| 25.0 | 25-may-1989 | 99 | CH2CL2 | LT | 23.000 | UGL |
| | | | | | = - • | - 75 |

IR Installation: Gaithersburg Research FacilityPage 13 Analytical Results for Chemical Ground Water From: 01/01/75 and 12/7/89

(continued) Site: WELL GNC-8

| SAMPLE DEPTH (ft) | SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------------|----------------------------|----------------|-------------------|----------|----------------|------------|
| 25.0 | 25-may-1989 | 99 | CH3BR | ND | 10.000 | 1101 |
| 25.0 25.0 | 25-may-1989 | 99 | CH3CL | LT | 1.800 | ugl ugl |
| 25.0 | 25-may-1989 | 99 | CHBR3 | LT | 3.700 | UGL |
| 25.0 | 25-may-1989 | 99 | CHCL3 | LT | 1.000 | UGL |
| 25.0 | 25-may-1989 | UM13 | CHRY | LT | 1.150 | UGL |
| 25.0 | 25-may-1989 | UM13 | CL6BZ | LT | 2.850 | UGL |
| 25.0 | 25-may-1989 | UM13 | CL6CP | ND | 10.000 | UGL |
| 25.0 | 25-may-1989 | UM13 | CL6ET | LT | 13.300 | UGL |
| 25.0 | 25-may-1989 | 99 | CLC6H5 | LT | 1.200 | UGL |
| 25.0 | 25-may-1989 | UH09 | CLDAN | LT | 0.046 | UGL |
| 25.0 | 25-may-1989 | UM13 | CLDAN | LT | 10.200 | UGL |
| 25.0 | 25-may-1989 | SS06 | CR | LT | 4.440 | UGL |
| 25.0 | 25-may-1989 | SS06 | CU | | 8.000 | UGL |
| 0.0 | 25-may-1989 | TF19 | CYN | LT | 5.500 | UGL |
| 25.0 | 25-may-1989 | UM13 | DBAHA | LT | 12.300 | UGL |
| 25.0 | 25-may-1989 | UH09 | DBHC | ND | 0.050 | UGL |
| 25.0 | 25-may-1989 | UM13 | DBHC | LT | 621.000 | UGL |
| 25.0 | 25-may-1989 | 99 | DBRCLM | LT | 1.800 | UGL |
| 25.0 | 25-may-1989 | UM13 | DEP | ND | 10.000 | UGL |
| 25.0 | 25-may-1989 | UH09 | DLDRN | LT | 0.005 | UGL |
| 25.0 | 25-may-1989 | UM13 | DLDRN | LT | 2.550 | UGL |
| 25.0 | 25-may-1989 | UM13 | DMP | ND | 10.000 | UGL |
| 25.0 | 25-may-1989 | UM13 | DNBP | ND | 10.000 | UGL |
| 25.0 | 25-may-1989 | UM13 | DNOP | | 24.900 | UGL |
| 25.0 | 25-may-1989 | UH09 | ENDRN | ND | 0.100 | UGL |
| 25.0 | 25-may-1989 | UM13 | ENDRN | LT | 34.200 | UGL |
| 25.0 | 25-may-1989 | UH09 | ENDRNK | ND | 0.100 | UGL |
| 25.0 | 25-may-1989 | UHO9 | ESFSO4 | ND | 0.100 | UGL |
| 25.0 | 25-may-1989 | UM13 | ESFS04 | ND | 6.000 | UGL |
| 25.0 | 25-may-1989 | 99 | ETC6H5 | LT | 1.400 | UGL |
| 25.0 | 25-may-1989 | UM13 | FANT | LT | 1.150 | UGL |
| 25.0 | 25-may-1989 | UM13 | FLRENE | ND | 10.000 | UGL |
| 25.0 | 25-may-1989 | UM13 | HCBD | LT | 7.890 | UGL |
| 25.0 | 25-may-1989 | 99 | HG | | 0.150 | UGL |
| 25.0 | 25-may-1989 | UHO9 | HPCL | LT | 0.019 | UGL |
| 25.0 | 25-may-1989 | UM13 | HPCL | LT | 4.910 | UGL |
| 25.0 | 25-may-1989 | UHO9 | HPCLE | LT | 0.086 | UGL |
| 25.0 | 25-may-1989 | UM13 | HPCLE | LT | 6.440 | UGL |
| 25.0 25.0 | 25-may-1989 | UM13 | ICDPYR | LT | 128.000 | UGL |
| 25.0 25.0 | 25-may-1989 | UHO9 | ISODR | LT | 0.041 | UGL |
| 25.0 25.0 | 25-may-1989 25-may-1989 | UM13 | ISOPHR | ND | 0.100 | UGL UGL |
| 25.0 | 25-may-1989 | UH09 | LIN | LT | 0.029 | UGL |
| 25.0 | 25-may-1989 | UM13 99 | LIN | LT LT | 26.000 | UGL |
| 25.0 25.0 | 25-may-1989 | UHO9 | MEC6H5 | ND | 1.800 0.500 | UGL |
| 25.0 | 25-may-1989 | UM13 | MEXCLR NAP | LT | 3.510 | UGL |
| 25.0 | 25-may-1989 | UM13 | NA <i>P</i> NB | ND | 10.000 | UGL |
| 25.0 25.0 | 25-may-1989 | SS06 | | LT | 15.300 | UGL |
| 43.U | 73-may-1303 | 9000 | NI | ьT | 13.300 | UGL |

IR Installation: Gaithersburg Research FacilityPage 14 Analytical Results for Chemical Ground Water From: 01/01/75 and 12/7/89

Site: WELL GNC-8 (continued)

| SAMPLE | SAMPLE | TEST | | | | |
|------------|-------------|-------------|----------|------|---------------|-------|
| DEPTH (ft) | DATE | METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
| | | | ~ | | | |
| 25.0 | 25-may-1989 | UM13 | NNDMEA | ND | 10.000 | UGL |
| 25.0 | 25-may-1989 | UM13 | NNDNPA | LT | 5.630 | UGL |
| 25.0 | 25-may-1989 | UM13 | NNDPA | ND | 6.700 | UGL |
| 25.0 | 25-may-1989 | SD11 | PB | LT | 1.700 | UGL |
| 25.0 | 25-may-1989 | UH09 | PCB016 | LT | 0.133 | UGL |
| 25.0 | 25-may-1989 | UM13 | PCB016 | ND | 30.000 | UGL |
| 25.0 | 25-may-1989 | UH09 | PCB221 | ND | 0.500 | UGL |
| 25.0 | 25-may-1989 | UM13 | PCB221 | ND | 30.000 | UGL |
| 25.0 | 25-may-1989 | UH09 | PCB232 | ND | 0.500 | UGL |
| 25.0 | 25-may-1989 | UM13 | PCB232 | ND | 30.000 | UGL |
| 25.0 | 25-may-1989 | UH09 | PCB242 | ND | 0.500 | UGL |
| 25.0 | 25-may-1989 | UM13 | PCB242 | ND | 30.000 | UGL |
| 25.0 | 25-may-1989 | UH09 | PCB248 | ND | 0.500 | UGL |
| 25.0 | 25-may-1989 | UM13 | PCB248 | ND | 30.000 | UGL |
| 25.0 | 25-may-1989 | UH09 | PCB254 | ND | 1.000 | UGL |
| 25.0 | 25-may-1989 | UM13 | PCB254 | ND | 60.000 | UGL |
| 25.0 | 25-may-1989 | UH09 | PCB260 | LT | 0.087 | UGL |
| 25.0 | 25-may-1989 | UM13 | PCB260 | ND | 60.000 | UGL |
| 25.0 | 25-may-1989 | UM13 | PCP | ND | 50.000 | UGL |
| 25.0 | 25-may-1989 | UM13 | PHANTR | LT | 0.759 | UGL |
| 25.0 | 25-may-1989 | UH09 | PPDDD | LT | 0.013 | UGL |
| 25.0 | 25-may-1989 | UM13 | PPDDD | LT | 5.610 | UGL |
| 25.0 | 25-may-1989 | UH09 | PPDDE | LT | 0.022 | UGL |
| 25.0 | 25-may-1989 | UM13 | PPDDE | LT | 11.200 | UGL |
| 25.0 | 25-may-1989 | UH09 | PPDDT | LT | 0.037 | UGL |
| 25.0 | 25-may-1989 | UM13 | PPDDT | LT | 5.070 | UGL |
| 25.0 | 25-may-1989 | UM13 | PYR | LT | 9.380 | UGL |
| 0.0 | 25-may-1989 | SD11 | SB | | 3.000 | UGL |
| 0.0 | 25-may-1989 | SD11 | SE | LT | 6.940 | UGL |
| 25.0 | 25-may-1989 | 99 | TCLEA | LT | 7.100 | UGL |
| 25.0 | 25-may-1989 | 99 | TCLEE | LT | 2.300 | UGL |
| 25.0 | 25-may-1989 | SS06 | . TL | LT | 59.900 | UGL |
| 25.0 | 25-may-1989 | 99 | TRCLE | LT | 1.000 | UGL |
| 25.0 | 25-may-1989 | UH09 | TXPHEN | ND | 1.000 | UGL |
| 25.0 | 25-may-1989 | UM13 | TXPHEN | ND | 60.000 | UGL |
| 25.0 | 25-may-1989 | UM13 | UNK536 | | 13.200 | UGL |
| 25.0 | 25-may-1989 | UM13 | UNK538 | | 13.000 | UGL |
| 25.0 | 25-may-1989 | UM13 | UNK540 | | 4.320 | UGL |
| 25.0 | 25-may-1989 | UM13 | UNK540 | | 4.250 | UGL |
| 25.0 | 25-may-1989 | UM13 | UNK541 | | 42.800 | UGL |
| 25.0 | 25-may-1989 | UM13 | UNK542 | | 8.650 | UGL |
| 25.0 | 25-may-1989 | UM13 | UNK543 | | 8.290 | UGL |
| 25.0 | 25-may-1989 | UM13 | UNK543 | | 7.130 | UGL |
| 25.0 | 25-may-1989 | UM13 | UNK544 | | 21.600 | UGL |
| 25.0 | 25-may-1989 | UM13 | UNK599 | | 4.850 | UGL |
| 25.0 | 25-may-1989 | UM13 | UNK619 | | 12.900 | UGL |
| 25.0 | 25-may-1989 | UM13 | UNK620 | | 22.000 | UGL |
| 25.0 | 25-may-1989 | UM13 | UNK620 | | 11.900 | UGL |
| | - | | | | | |

IR Installation: Gaithersburg Research FacilityPage 15 Analytical Results for Chemical Ground Water From: 01/01/75 and 12/7/89

Site: WELL GNC-8 (continued)

| SAMPLE DEPTH (ft | SAMPLE) DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|---------------------|------------------|----------------|----------|------|---------------|-------|
| 25.0 | 25-may-1989 | UM13 | UNK621 | | 21.300 | UGL |
| 25.0 | 25-may-1989 | UM13 | UNK621 | | 17.100 | UGL |
| 25.0 | 25-may-1989 | UM13 | UNK622 | | 13.600 | UGL |
| 25.0 | 25-may-1989 | UM13 | UNK628 | | 6.310 | UGL |
| 25.0 | 25-may-1989 | UM13 | UNK630 | | 10.700 | UGL |
| 25.0 | 25-may-1989 | SS06 | ZN | | 21.100 | UGL |

Site: WELL GNL-1

| SAMPLE | SAMPLE | TEST | | | | |
|-----------|-------------|--------|----------|------|---------------|-------|
| DEPTH (ft |) DATE | METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
| | | | | | | |
| 35.0 | 25-may-1989 | 99 | 111TCE | LT | 1.000 | UGL |
| 35.0 | 25-may-1989 | 99 | 112TCE | LT | 1.700 | UGL |
| 35.0 | 25-may-1989 | 99 | 11DCE | LT | 6.800 | UGL |
| 35.0 | 25-may-1989 | 99 | 11DCLE | LT | 2.700 | UGL |
| 35.0 | 25-may-1989 | UM13 | 124TCB | LT | 4.420 | UGL |
| 35.0 | 25-may-1989 | 99 | 12DCE | LT | 2.200 | UGL |
| 35.0 | 25-may-1989 | UM13 | 12DCLB | LT | 7.320 | UGL |
| 35.0 | 25-may-1989 | 99 | 12DCLE | LT | 1.000 | UGL |
| 35.0 | 25-may-1989 | 99 | 12DCLP | LT | 3.200 | UGL |
| 35.0 | 25-may-1989 | UM13 | 13DCLB | LT | 8.270 | UGL |
| 35.0 | 25-may-1989 | UM13 | 14DCLB | LT | 7.970 | UGL |
| 35.0 | 25-may-1989 | UM13 | 246TCP | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | 24DCLP | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | 24DMPN | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | 24DNP | ND | 50.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | 24DNT | LT | 5.840 | UGL |
| 35.0 | 25-may-1989 | UM13 | 26DNT | LT | 5.520 | UGL |
| 35.0 | 25-may-1989 | 99 | 2CLEVE | LT | 1.600 | UGL |
| 35.0 | 25-may-1989 | UM13 | 2CLP | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | 2CNAP | LT | 2.070 | UGL |
| 35.0 | 25-may-1989 | UM13 | 2NP | ND | 50.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | 33DCBD | ND | 20.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | 46DN2C | ND | 50.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | 4BRPPE | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | 4CL3C | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | 4CLPPE | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | 4NP | ND | 50.000 | UGL |
| 35.0 | 25-may-1989 | UH09 | ABHC | ND | 0.050 | UGL |
| 35.0 | 25-may-1989 | UM13 | ABHC | ND | 3.000 | UGL |
| 35.0 | 25-may-1989 | 99 | ACROLN | ND | 100.000 | UGL |
| 35.0 | 25-may-1989 | 99 | ACRYLO | ND | 100.000 | UGL |
| 35.0 | 25-may-1989 | UH09 | AENSLF | ND | 0.050 | UGL |
| 35.0 | 25-may-1989 | UM13 | AENSLF | ND | 3.000 | UGL |
| 35.0 | 25-may-1989 | SS06 | AG | LT | 5.450 | UGL |
| 35.0 | 25-may-1989 | UH09 | ALDRN | LT | 0.022 | UGL |

IR Installation: Gaithersburg Research FacilityPage 16 Analytical Results for Chemical Ground Water From: 01/01/75 and 12/7/89

Site: WELL GNL-1 (continued)

| SAMPLE | SAMPLE | TEST | COMPOSIDE | Door | 20\125\155\155\1 | • |
|--------------|-------------|--------|-----------|-----------------------------|------------------|-------|
| DEPTH (ft) | DATE | METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
| 35.0 | 25-may-1989 | UM13 | ALDRN | LT | 5.780 | UGL |
| 35.0 | 25-may-1989 | UM13 | ANAPNE | LT | 1.260 | UGL |
| 35.0 35.0 | 25-may-1989 | UM13 | ANAPYL | LT | 3.300 | UGL |
| 35.0 | 25-may-1989 | UM13 | ANTHRC | LT | 1.110 | UGL |
| 0.0 | 25-may-1989 | SD11 | AS | LT | 4.190 | UGL |
| 35.0 | 25-may-1989 | UM13 | B2CEXM | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | B2CIPE | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | B2CLEE | LT | 1.500 | UGL |
| 35.0 | 25-may-1989 | UM13 | B2EHP | LT | 32.700 | UGL |
| 35.0 | 25-may-1989 | UM13 | BAANTR | LT | 0.906 | UGL |
| 35.0 | 25-may-1989 | UM13 | BAPYR | LT | 8.290 | UGL |
| 35.0 | 25-may-1989 | UM13 | BBFANT | LT | 2.650 | UGL |
| 35.0 | 25-may-1989 | UH09 | BBHC | ND | 0.050 | UGL |
| 35.0 | 25-may-1989 | UM13 | BBHC | LT | 3.170 | UGL |
| 35.0 | 25-may-1989 | UM13 | BBZP | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | SS06 | BE | LT | 2.860 | UGL |
| 35.0 | 25-may-1989 | UHO9 | BENSLF | ND | 0.100 | UGL |
| 35.0 | 25-may-1989 | UM13 | BENSLF | ND | 6.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | BENZID | ND | 50.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | BGHIPY | LT | 64.600 | UGL |
| 35.0 | 25-may-1989 | UM13 | BKFANT | LT | 3.280 | UGL |
| 35.0 | 25-may-1989 | 99 | BRDCLM | ND | 5.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | BZALC | ND | 0.100 | UGL |
| 35.0 | 25-may-1989 | 99 | C13DCP | LT | 1.800 | UGL |
| 35.0 | 25-may-1989 | 99 | C2H3CL | LT | 13.000 | UGL |
| 35.0 | 25-may-1989 | 99 | C2H5CL | LT | 6.900 | UGL |
| 35.0 | 25-may-1989 | 99 | C6H6 | LT | 1.700 | UGL |
| 35.0 | 25-may-1989 | 99 | CCL4 | LT | 1.000 | UGL |
| 35.0 | 25-may-1989 | SS06 | CD | | 7.400 | UGL |
| 35.0 | 25-may-1989 | 99 | CH2CL2 | LT | 23.000 | UGL |
| 35.0 | 25-may-1989 | 99 | CH3BR | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | 99 | CH3CL | LT | 1.800 | UGL |
| 35.0 | 25-may-1989 | 99 | CHBR3 | LT | 3.700 | UGL |
| 35.0 | 25-may-1989 | 99 | CHCL3 | LT | 1.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | CHRY | LT | 1.150 | UGL |
| 35.0 | 25-may-1989 | UM13 | CL6BZ | LT | 2.850 | UGL |
| 35.0 | 25-may-1989 | UM13 | CL6CP | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | CL6ET | LT | 13.300 | UGL |
| 35.0 | 25-may-1989 | 99 | CLC6H5 | LT | 1.200 | UGL |
| 35.0 | 25-may-1989 | UH09 | CLDAN | LT | 0.046 | UGL |
| 35.0 | 25-may-1989 | UM13 | CLDAN | LT | 10.200 | UGL |
| 35.0 | 25-may-1989 | SS06 | CR | LT | 4.440 | UGL |
| 35.0 | 25-may-1989 | SS06 | CU | | 17.700 | UGL |
| 0.0 | 25-may-1989 | TF19 | CYN | LT | 5.500 | UGL |
| 35.0 | 25-may-1989 | UM13 | DBAHA | LT | 12.300 | UGL |
| 35.0 | 25-may-1989 | UH09 | DBHC | ND | 0.050 | UGL |
| 35.0 | 25-may-1989 | UM13 | DBHC | LT | 621.000 | UGL |
| 35.0 | 25-may-1989 | 99 | DBRCLM | $\mathbf{L}\cdot\mathbf{T}$ | 1.800 | UGL |

IR Installation: Gaithersburg Research FacilityPage 17 Analytical Results for Chemical Ground Water From: 01/01/75 and 12/7/89

Site: WELL GNL-1 (continued)

| SAMPLE DEPTH (ft | SAMPLE) DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|---------------------|------------------|----------------|----------|------|---------------|-------|
| DEFIN (IC | , Dais | | | | CONCENTRATION | ONITS |
| 35.0 | 25-may-1989 | UM13 | DEP | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UH09 | DLDRN | LT | 0.005 | UGL |
| 35.0 | 25-may-1989 | UM13 | DLDRN | LT | 2.550 | UGL |
| 35.0 | 25-may-1989 | UM13 | DMP | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | DNBP | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | DNOP | LT | 21.400 | UGL |
| 35.0 | 25-may-1989 | UH09 | ENDRN | ND | 0.100 | UGL |
| 35.0 | 25-may-1989 | UM13 | ENDRN | LT | 34.200 | UGL |
| 35.0 | 25-may-1989 | UH09 | ENDRNK | ND | 0.100 | UGL |
| 35.0 | 25-may-1989 | UH09 | ESFS04 | ND | 0.100 | UGL |
| 35.0 | 25-may-1989 | UM13 | ESFS04 | ND | 6.000 | UGL |
| 35.0 | 25-may-1989 | 99 | ETC6H5 | LT | 1.400 | UGL |
| 35.0 | 25-may-1989 | UM13 | FANT | LT | 1.150 | UGL |
| 35.0 | 25-may-1989 | UM13 | FLRENE | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | HCBD | LT | 7.890 | UGL |
| 35.0 | 25-may-1989 | 99 | HG | | 0.150 | UGL |
| 35.0 | 25-may-1989 | UHO9 | HPCL | | 0.104 | UGL |
| 35.0 | 25-may-1989 | UM13 | HPCL | LT | 4.910 | UGL |
| 35.0 | 25-may-1989 | UH09 | HPCLE | LT | 0.086 | UGL |
| 35.0 | 25-may-1989 | UM13 | HPCLE | LT | 6.440 | UGL |
| 35.0 | 25-may-1989 | UM13 | ICDPYR | LT | 128.000 | UGL |
| 35.0 | 25-may-1989 | UHO9 | ISODR | LT | 0.041 | UGL |
| 35.0 | 25-may-1989 | UM13 | ISOPHR | ND | 0.100 | UGL |
| 35.0 | 25-may-1989 | UHO9 | LIN | LT | 0.029 | UGL |
| 35.0 | 25-may-1989 | UM13 | LIN | LT | 26.000 | UGL |
| 35.0 | 25-may-1989 | 99 | MEC6H5 | LT | 1.800 | UGL |
| 35.0 | 25-may-1989 | UH09 | MEXCLR | ND | 0.500 | UGL |
| 35.0 | 25-may-1989 | UM13 | NAP | LT | 3.510 | UGL |
| 35.0 | 25-may-1989 | UM13 | NB | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | SS06 | NI | LT | 15.300 | UGL |
| 35.0 | 25-may-1989 | UM13 | NNDMEA | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | NNDNPA | LT | 5.630 | UGL |
| 35.0 | 25-may-1989 | UM13 | NNDPA | ND | 6.700 | UGL |
| 35.0 | 25-may-1989 | SD11 | PB | | 4.570 | UGL |
| 35.0 | 25-may-1989 | UH09 | PCB016 | LT | 0.133 | UGL |
| 35.0 | 25-may-1989 | UM13 | PCB016 | ND | 30.000 | UGL |
| 35.0 | 25-may-1989 | UHO9 | PCB221 | ND | 0.500 | UGL |
| 35.0 | 25-may-1989 | UM13 | PCB221 | ND | 30.000 | UGL |
| 35.0 | 25-may-1989 | UH09 | PCB232 | ND | 0.500 | UGL |
| 35.0 | 25-may-1989 | UM13 | PCB232 | ND | 30.000 | UGL |
| 35.0 | 25-may-1989 | UH09 | PCB242 | ND | 0.500 | UGL |
| 35.0 | 25-may-1989 | UM13 | PCB242 | ND | 30.000 | UGL |
| 35.0 | 25-may-1989 | UHO9 | PCB248 | ND | 0.500 | UGL |
| 35.0 | 25-may-1989 | UM13 | PCB248 | ND | 30.000 | UGL |
| 35.0 | 25-may-1989 | UHO9 | PCB254 | ND | 1.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | PCB254 | ND | 60.000 | UGL |
| 35.0 | 25-may-1989 | UHO9 | PCB260 | LT | 0.087 | UGL |
| 35.0 | 25-may-1989 | UM13 | PCB260 | ND | 60.000 | UGL |

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Site: WELL GNL-1 (continued)

| SAMPLE DEPTH (ft) | SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------------|----------------|----------------|----------|------|---------------|-------|
| | | | | | | ~~ |
| 35.0 | 25-may-1989 | UM13 | PCP | ND | 50.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | PHANTR | LT | 0.759 | UGL |
| 35.0 | 25-may-1989 | UH09 | PPDDD | LT | 0.013 | UGL |
| 35.0 | 25-may-1989 | UM13 | PPDDD | LT | 5.610 | UGL |
| 35.0 | 25-may-1989 | UHO9 | PPDDE | LT | 0.022 | UGL |
| 35.0 | 25-may-1989 | UM13 | PPDDE | LT | 11.200 | UGL |
| 35.0 | 25-may-1989 | UH09 | PPDDT | LT | 0.037 | UGL |
| 35.0 | 25-may-1989 | UM13 | PPDDT | LT | 5.070 | ugl |
| 35.0 | 25-may-1989 | UM13 | PYR | LT | 9.380 | UGL |
| 0.0 | 25-may-1989 | SD11 | SB | | 2.880 | UGL |
| 0.0 | 25-may-1989 | SD11 | SE | LT | 6.940 | UGL |
| 35.0 | 25-may-1989 | 99 | TCLEA | LT | 7.100 | UGL |
| 35.0 | 25-may-1989 | 99 | TCLEE | LT | 2.300 | UGL |
| 35.0 | 25-may-1989 | SS06 | TL | LT | 59.900 | UGL |
| 35.0 | 25-may-1989 | 99 | TRCLE | LT | 1.000 | UGL |
| 35.0 | 25-may-1989 | UH09 | TXPHEN | ND | 1.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | TXPHEN | ND | 60.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | UNK536 | | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | UNK538 | | 11.300 | UGL |
| 35.0 | 25-may-1989 | UM13 | UNK541 | | 36.600 | UGL |
| 35.0 | 25-may-1989 | UM13 | UNK542 | | 9.600 | UGL |
| 35.0 | 25-may-1989 | UM13 | UNK543 | | 7.510 | UGL |
| 35.0 | 25-may-1989 | UM13 | UNK543 | | 6.380 | UGL |
| 35.0 | 25-may-1989 | UM13 | UNK544 | | 19.700 | UGL |
| 35.0 | 25-may-1989 | UM13 | UNK599 | | 4.190 | UGL |
| 35.0 | 25-may-1989 | SS06 | ZN | | 39.300 | UGL |

Site: WELL GNL-2

| SAMPLE DEPTH (ft) | SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------------|----------------|----------------|----------|------|---------------|-------|
| 30.0 | 25-may-1989 | 99 | 111TCE | LT | 1.000 | UGL |
| 30.0 | 25-may-1989 | 99 | 112TCE | LT | 1.700 | UGL |
| 30.0 | 25-may-1989 | 9 9 | 11DCE | LT | 6.800 | UGL |
| 30.0 | 25-may-1989 | 99 | 11DCLE | LT | 2.700 | UGL |
| 30.0 | 25-may-1989 | UM13 | 124TCB | LT | 4.420 | UGL |
| 30.0 | 25-may-1989 | 99 | 12DCE | LT | 2.200 | UGL |
| 30.0 | 25-may-1989 | UM13 | 12DCLB | LT | 7.320 | UGL |
| 30.0 | 25-may-1989 | 99 | 12DCLE | LT | 1.000 | UGL |
| 30.0 | 25-may-1989 | 99 | 12DCLP | LT | 3.200 | UGL |
| 30.0 | 25-may-1989 | UM13 | 13DCLB | LT | 8.270 | ugl |
| 30.0 | 25-may-1989 | UM13 | 14DCLB | LT | 7.970 | UGL |
| 30.0 | 25-may-1989 | UM13 | 246TCP | ND | 10.000 | UGL |
| 30.0 | 25-may-1989 | UM13 | 24DCLP | ND | 10.000 | UGL |
| 30.0 | 25-may-1989 | UM13 | 24DMPN | ND | 10.000 | UGL |
| 30.0 | 25-may-1989 | UM13 | 24DNP | ND | 50.000 | UGL |

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Site: WELL GNL-2 (continued)

| 30.0 25-may-1989 UM13 24DNT | SAMPLE DEPTH (ft) | SAMPLE) DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|--|----------------------|------------------|----------------|----------|------|---------------|-------|
| 30.0 25-may-1989 | | | | | | | |
| 30.0 25-may-1989 99 2CLEVE LT 1.600 UCL 30.0 25-may-1989 UM13 2CLP ND 10.000 UCL 30.0 25-may-1989 UM13 2CNAP LT 2.070 UGL 30.0 25-may-1989 UM13 2NP ND 50.000 UGL 30.0 25-may-1989 UM13 3DCBD ND 20.000 UGL 30.0 25-may-1989 UM13 46DN2C ND 50.000 UGL 30.0 25-may-1989 UM13 45DN2C ND 50.000 UGL 30.0 25-may-1989 UM13 4CLPPE ND 10.000 UGL 30.0 25-may-1989 UM13 ACLPPE ND 50.000 UGL 30.0 25-may-1989 UM13 ABRC ND 3.000 UGL 30.0 25-may-1989 P9 ACROLN ND 100.000 UGL 30.0 25-may-1989 SP ACROLN ND 100.000 UGL 30.0 25-may-1989 UM13 ABRC ND 3.000 UGL 30.0 25-may-1989 UM13 ABRC ND 3.000 UGL 30.0 25-may-1989 UM13 ACLP ND 100.000 UGL 30.0 25-may-1989 UM13 ACLP ND 100.000 UGL 30.0 25-may-1989 UM13 ACLP ND 3.000 UGL 30.0 25-may-1989 UM13 ACLP ND 3.000 UGL 30.0 25-may-1989 UM13 ACLP ND 3.000 UGL 30.0 25-may-1989 UM13 ALDRN LT 5.780 UGL 30.0 25-may-1989 UM13 ALDRN LT 5.780 UGL 30.0 25-may-1989 UM13 ANAPYL LT 3.300 UGL 30.0 25-may-1989 UM13 ANAPYL LT 3.260 UGL 30.0 25-may-1989 UM13 ANAPYL LT 3.260 UGL 30.0 25-may-1989 UM13 ANAPYL LT 3.260 UGL 30.0 25-may-1989 UM13 BECLPE ND 10.000 UGL 30.0 25-may-1989 UM13 BENSLF ND 6.000 UGL 30. | | | | | | | |
| 30.0 25-may-1989 UM13 2CLP ND 10.000 UGL 30.0 25-may-1989 UM13 2CNAP LT 2.070 UGL 30.0 25-may-1989 UM13 2CNAP ND 50.000 UGL 30.0 25-may-1989 UM13 33DCBD ND 20.000 UGL 30.0 25-may-1989 UM13 46DN2C ND 50.000 UGL 30.0 25-may-1989 UM13 46DN2C ND 50.000 UGL 30.0 25-may-1989 UM13 46DN2C ND 10.000 UGL 30.0 25-may-1989 UM13 4CL3C ND 10.000 UGL 30.0 25-may-1989 UM13 4CL3C ND 10.000 UGL 30.0 25-may-1989 UM13 4CL2FE ND 10.000 UGL 30.0 25-may-1989 UM13 ANP ND 50.000 UGL 30.0 25-may-1989 UM13 ABHC ND 0.050 UGL 30.0 25-may-1989 UM13 ABHC ND 0.050 UGL 30.0 25-may-1989 UM13 ABHC ND 0.050 UGL 30.0 25-may-1989 UM13 ABHC ND 100.000 UGL 30.0 25-may-1989 UM13 ABHC ND 0.050 UGL 30.0 25-may-1989 P9 ACROLN ND 100.000 UGL 30.0 25-may-1989 UM13 ABHC ND 0.050 UGL 30.0 25-may-1989 UM13 ABHC ND 0.050 UGL 30.0 25-may-1989 UM13 ABHSLF ND 0.050 UGL 30.0 25-may-1989 UM13 ALDRN LT 0.022 UGL 30.0 25-may-1989 UM13 ALDRN LT 5.780 UGL 30.0 25-may-1989 UM13 ALDRN LT 1.260 UGL 30.0 25-may-1989 UM13 ANAPNE LT 1.260 UGL 30.0 25-may-1989 UM13 ANAPNE LT 1.260 UGL 30.0 25-may-1989 UM13 ANAPNE LT 1.10 UGL 30.0 25-may-1989 UM13 B2CEEM ND 10.000 UGL 30.0 25-may-1989 UM13 BBCC LT 1.500 UGL 30.0 25-may-1989 UM13 BCMSLF ND 6.000 UGL 30. | | | | | | | |
| 30.0 25-may-1989 UM13 2CNAP ND 50.000 UGL 30.0 25-may-1989 UM13 3DCBD ND 20.000 UGL 30.0 25-may-1989 UM13 46DN2C ND 50.000 UGL 30.0 25-may-1989 UM13 46DN2C ND 50.000 UGL 30.0 25-may-1989 UM13 4ERPE ND 10.000 UGL 30.0 25-may-1989 UM13 4CLPFE ND 10.000 UGL 30.0 25-may-1989 UM13 4CLPFE ND 10.000 UGL 30.0 25-may-1989 UM13 4CLPFE ND 10.000 UGL 30.0 25-may-1989 UM13 ABHC ND 50.000 UGL 30.0 25-may-1989 UM13 ABHC ND 0.050 UGL 30.0 25-may-1989 UM13 ABHC ND 3.000 UGL 30.0 25-may-1989 99 ACRVLO ND 3.000 UGL 30.0 25-may-1989 99 ACRVLO ND 100.000 UGL 30.0 25-may-1989 UM13 ABHC ND 100.000 UGL 30.0 25-may-1989 UM13 ABHC ND 3.000 UGL 30.0 25-may-1989 UM13 ABHC ND 100.000 UGL 30.0 25-may-1989 UM13 ABHC ND 100.000 UGL 30.0 25-may-1989 UM13 ABHC ND 3.000 UGL 30.0 25-may-1989 UM13 ABHC ND 0.050 UGL 30.0 25-may-1989 UM13 ABHC ND 3.000 UGL 30.0 25-may-1989 UM13 ABHC ND 3.000 UGL 30.0 25-may-1989 UM13 ABNSLF ND 3.000 UGL 30.0 25-may-1989 UM13 ABNSNLF ND 3.000 UGL 30.0 25-may-1989 UM13 ABNSNLF ND 3.000 UGL 30.0 25-may-1989 UM13 ALDRN LT 5.780 UGL 30.0 25-may-1989 UM13 ANAPNE LT 1.260 UGL 30.0 25-may-1989 UM13 ANAPNE LT 1.260 UGL 30.0 25-may-1989 UM13 ANAPNE LT 1.110 UGL 30.0 25-may-1989 UM13 B2CEXM ND 10.000 UGL 30.0 25-may-1989 UM13 B2CEXM ND 10.000 UGL 30.0 25-may-1989 UM13 B2CEXE LT 1.500 UGL 30.0 25-may-1989 UM13 BBC LT 3.170 UGL 30.0 25-may-1989 UM13 BC LT 3.170 UGL 30. | | | | | | | |
| 30.0 25-may-1989 UM13 2NF ND 50.000 UGL 30.0 25-may-1989 UM13 46DN2C ND 10.000 UGL 30.0 25-may-1989 UM13 4CL3C ND 10.000 UGL 30.0 25-may-1989 UM13 4CLPFE ND 10.000 UGL 30.0 25-may-1989 UM13 4CLPFE ND 10.000 UGL 30.0 25-may-1989 UM13 APR ND 50.000 UGL 30.0 25-may-1989 UM13 APR ND 50.000 UGL 30.0 25-may-1989 UM13 APR ND 10.000 UGL 30.0 25-may-1989 UM13 APR ND 10.000 UGL 30.0 25-may-1989 UM13 APR ND 10.000 UGL 30.0 25-may-1989 P9 ACROLN ND 100.000 UGL 30.0 25-may-1989 UM13 APR ND 100.000 UGL 30.0 25-may-1989 UM13 APR ND 0.050 UGL 30.0 25-may-1989 UM13 APR ND 10.000 UGL 30.0 25-may-1989 UM13 APR ND 10.000 UGL 30.0 25-may-1989 UM13 APR LT 0.022 UGL 30.0 25-may-1989 UM13 APR LT 1.260 UGL 30.0 25-may-1989 UM13 BPE ND 10.000 U | | | | | | | |
| 30.0 25-may-1989 UM13 33DCBD ND 20.000 UGL 30.0 25-may-1989 UM13 46DN2C ND 50.000 UGL 30.0 25-may-1989 UM13 4ERPPE ND 10.000 UGL 30.0 25-may-1989 UM13 4CL3C ND 10.000 UGL 30.0 25-may-1989 UM13 4CL3C ND 10.000 UGL 30.0 25-may-1989 UM13 4CLPPE ND 10.000 UGL 30.0 25-may-1989 UM13 ANP ND 50.000 UGL 30.0 25-may-1989 UM13 ABHC ND 3.000 UGL 30.0 25-may-1989 UM13 ABHC ND 3.000 UGL 30.0 25-may-1989 99 ACROLN ND 100.000 UGL 30.0 25-may-1989 99 ACROLN ND 100.000 UGL 30.0 25-may-1989 UM13 ABHS ND 100.000 UGL 30.0 25-may-1989 UM13 ABHS ND 3.000 UGL 30.0 25-may-1989 UM13 ANAPNE LT 5.450 UGL 30.0 25-may-1989 UM13 ANAPNE LT 5.780 UGL 30.0 25-may-1989 UM13 ANAPNE LT 1.260 UGL 30.0 25-may-1989 UM13 BECEM ND 10.000 UGL 30.0 25-may-1989 UM13 BECEM ND 0.050 UGL 30.0 25-may-1989 UM13 BECEM ND 0.050 UGL 30.0 25-may-1989 UM13 BERSLF ND 0.050 UGL 30.0 25-may-1989 UM13 BERSLF ND 0.000 UGL | | | | | | | |
| 30.0 25-may-1989 UM13 46DN2C ND 50.000 UGL 30.0 25-may-1989 UM13 4BRPPE ND 10.000 UGL 30.0 25-may-1989 UM13 4CL3C ND 10.000 UGL 30.0 25-may-1989 UM13 4CL3C ND 10.000 UGL 30.0 25-may-1989 UM13 4CL3C ND 10.000 UGL 30.0 25-may-1989 UM13 4NP ND 50.000 UGL 30.0 25-may-1989 UM13 ABRC ND 0.550 UGL 30.0 25-may-1989 UM13 ABRC ND 0.050 UGL 30.0 25-may-1989 99 ACROLN ND 100.000 UGL 30.0 25-may-1989 99 ACRYLO ND 100.000 UGL 30.0 25-may-1989 UM13 ABRSLF ND 0.050 UGL 30.0 25-may-1989 UM13 AENSLF ND 3.000 UGL 30.0 25-may-1989 UM13 AENSLF ND 3.000 UGL 30.0 25-may-1989 UM13 AENSLF ND 3.000 UGL 30.0 25-may-1989 UM19 ALDRN LT 5.780 UGL 30.0 25-may-1989 UM13 ALDRN LT 5.780 UGL 30.0 25-may-1989 UM13 ANAPYL LT 3.300 UGL 30.0 25-may-1989 UM13 BZCEXM ND 10.000 UGL 30.0 25-may- | | | | | | | |
| 30.0 25-may-1989 UM13 4BRPPE ND 10.000 UGL 30.0 25-may-1989 UM13 4CL3C ND 10.000 UGL 30.0 25-may-1989 UM13 4CLPPE ND 10.000 UGL 30.0 25-may-1989 UM13 4NP ND 50.000 UGL 30.0 25-may-1989 UM13 ANP ND 50.000 UGL 30.0 25-may-1989 UM13 ABHC ND 0.050 UGL 30.0 25-may-1989 UM13 ABHC ND 3.000 UGL 30.0 25-may-1989 99 ACROLN ND 100.000 UGL 30.0 25-may-1989 99 ACRYLO ND 100.000 UGL 30.0 25-may-1989 UM13 ABHC ND 0.050 UGL 30.0 25-may-1989 UM13 ABHC ND 0.050 UGL 30.0 25-may-1989 UM13 ABNSLF ND 0.050 UGL 30.0 25-may-1989 UM13 ABNSLF ND 0.050 UGL 30.0 25-may-1989 UM13 ABNSLF ND 0.050 UGL 30.0 25-may-1989 UM13 ALDRN LT 0.022 UGL 30.0 25-may-1989 UM13 ANAPNE LT 1.260 UGL 30.0 25-may-1989 UM13 ANAPNE LT 1.110 UGL 30.0 25-may-1989 UM13 ANAPNE LT 1.110 UGL 30.0 25-may-1989 UM13 BACEE ND 10.000 UGL 30.0 25-may-1989 UM13 BACED ND 10.000 UGL 30.0 25-may-1989 UM13 BECEM ND 10.000 UGL 30.0 25-may-1989 UM13 BECEM ND 10.000 UGL 30.0 25-may-1989 UM13 BECED ND 10.000 UGL 30.0 25-may-1989 UM13 BECED ND 10.000 UGL 30.0 25-may-1989 UM13 BECED LT 1.500 UGL 30.0 25-may-1989 UM13 BECED ND 10.000 UGL 30.0 25-may-1989 UM13 BERSET ND 10.000 UGL 30.0 25-may-1989 UM13 BERSET ND 6.000 UGL | | | | | | | |
| 30.0 25-may-1989 UM13 4CL3C ND 10.000 UGL 30.0 25-may-1989 UM13 4CLFPE ND 10.000 UGL 30.0 25-may-1989 UM13 4NP ND 50.000 UGL 30.0 25-may-1989 UM13 ABHC ND 0.550 UGL 30.0 25-may-1989 UM13 ABHC ND 3.000 UGL 30.0 25-may-1989 99 ACROLN ND 100.000 UGL 30.0 25-may-1989 99 ACRYLO ND 100.000 UGL 30.0 25-may-1989 99 ACRYLO ND 100.000 UGL 30.0 25-may-1989 UM13 ABHSLF ND 0.550 UGL 30.0 25-may-1989 UM13 AENSLF ND 0.500 UGL 30.0 25-may-1989 UM13 AENSLF ND 0.500 UGL 30.0 25-may-1989 UM13 AENSLF ND 0.050 UGL 30.0 25-may-1989 UM13 ALDRN LT 5.780 UGL 30.0 25-may-1989 UM13 ALDRN LT 5.780 UGL 30.0 25-may-1989 UM13 ANAPNE LT 1.260 UGL 30.0 25-may-1989 UM13 ANAPNE LT 1.260 UGL 30.0 25-may-1989 UM13 ANAPNE LT 1.110 UGL 30.0 25-may-1989 UM13 ANAPNE LT 1.110 UGL 30.0 25-may-1989 UM13 BANTHRC LT 1.110 UGL 30.0 25-may-1989 UM13 BECEXM ND 10.000 UGL 30.0 25-may-1989 UM13 BECEXE ND 10.000 UGL 30.0 25-may-1989 UM13 BERANT LT 0.906 UGL 30.0 25-may-1989 UM13 BERANT LT 2.650 UGL 30.0 25-may-1989 UM13 BERANT LT 2.660 UGL 30.0 25-may-1989 UM13 BERANT LT 3.170 UGL 30.0 25-may-1989 UM13 BERANT LT 3.170 UGL 30.0 25-may-1989 UM13 BERANT LT 3.600 UGL 30.0 25-may-1989 UM13 BERANT L | | | | | | | |
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| 30.0 25-may-1989 UM13 B2CEXM ND 10.000 UGL 30.0 25-may-1989 UM13 B2CIPE ND 10.000 UGL 30.0 25-may-1989 UM13 B2CLEE LT 1.500 UGL 30.0 25-may-1989 UM13 B2CLEE LT 32.700 UGL 30.0 25-may-1989 UM13 BAANTR LT 0.906 UGL 30.0 25-may-1989 UM13 BAPYR LT 8.290 UGL 30.0 25-may-1989 UM13 BAPYR LT 2.650 UGL 30.0 25-may-1989 UM13 BBFANT LT 2.650 UGL 30.0 25-may-1989 UM13 BBFANT LT 3.170 UGL 30.0 25-may-1989 UM13 BBHC ND 0.050 UGL 30.0 25-may-1989 UM13 BBHC LT 3.170 UGL 30.0 25-may-1989 UM13 BBHC LT 2.860 UGL 30.0 25-may-1989 UM13 BBZP ND 10.000 UGL 30.0 25-may-1989 UM13 BBZP ND 0.100 UGL 30.0 25-may-1989 UM13 BENSLF ND 0.100 UGL 30.0 25-may-1989 UM13 BENSLF ND 6.000 UGL 30.0 25-may-1989 UM13 BENSLF ND 6.000 UGL 30.0 25-may-1989 UM13 BENSLF ND 50.000 UGL 30.0 25-may-1989 UM13 BENSLF LT 3.280 UGL 30.0 25-may-1989 UM13 BENSLF LT 3.280 UGL 30.0 25-may-1989 UM13 BZALC ND 0.100 UGL 30.0 25-may-1989 99 C2H3CL LT 1.3000 UGL 30.0 25-may-1989 99 C2H3CL LT 1.700 UGL | | | | | | | |
| 30.0 25-may-1989 UM13 B2CIPE ND 10.000 UGL 30.0 25-may-1989 UM13 B2CLEE LT 1.500 UGL 30.0 25-may-1989 UM13 B2EHP LT 32.700 UGL 30.0 25-may-1989 UM13 BAANTR LT 0.906 UGL 30.0 25-may-1989 UM13 BAANTR LT 0.906 UGL 30.0 25-may-1989 UM13 BAFYR LT 8.290 UGL 30.0 25-may-1989 UM13 BBFANT LT 2.650 UGL 30.0 25-may-1989 UM13 BBFANT LT 3.170 UGL 30.0 25-may-1989 UM13 BBHC ND 0.050 UGL 30.0 25-may-1989 UM13 BBHC LT 3.170 UGL 30.0 25-may-1989 UM13 BBZP ND 10.000 UGL 30.0 25-may-1989 UM13 BBZP ND 0.100 UGL 30.0 25-may-1989 UM09 BENSLF ND 0.100 UGL 30.0 25-may-1989 UM13 BENSLF ND 6.000 UGL 30.0 25-may-1989 UM13 BENSLF ND 6.000 UGL 30.0 25-may-1989 UM13 BENSLF ND 50.000 UGL 30.0 25-may-1989 UM13 BENID ND 50.000 UGL 30.0 25-may-1989 UM13 BCHIPY LT 64.600 UGL 30.0 25-may-1989 UM13 BKFANT LT 3.280 UGL 30.0 25-may-1989 UM13 BKFANT LT 3.280 UGL 30.0 25-may-1989 UM13 BZALC ND 0.100 UGL 30.0 25-may-1989 99 C2H3CL LT 1.800 UGL 30.0 25-may-1989 99 C2H3CL LT 1.800 UGL 30.0 25-may-1989 99 C2H3CL LT 1.700 UGL | | | | | | | |
| 30.0 25-may-1989 UM13 B2CLEE LT 1.500 UGL 30.0 25-may-1989 UM13 B2EHP LT 32.700 UGL 30.0 25-may-1989 UM13 BAANTR LT 0.906 UGL 30.0 25-may-1989 UM13 BAANTR LT 8.290 UGL 30.0 25-may-1989 UM13 BBFANT LT 2.650 UGL 30.0 25-may-1989 UM13 BBFANT LT 2.650 UGL 30.0 25-may-1989 UM13 BBHC ND 0.050 UGL 30.0 25-may-1989 UM13 BBHC LT 3.170 UGL 30.0 25-may-1989 UM13 BBZP ND 10.000 UGL 30.0 25-may-1989 SSO6 BE LT 2.860 UGL 30.0 25-may-1989 UM13 BENSLF ND 0.100 UGL 30.0 25-may-1989 UM13 BENSLF ND 6.000 UGL 30.0 25-may-1989 UM13 BENSLF ND 6.000 UGL 30.0 25-may-1989 UM13 BENZID ND 50.000 UGL 30.0 25-may-1989 UM13 BENZID ND 50.000 UGL 30.0 25-may-1989 UM13 BGHIPY LT 64.600 UGL 30.0 25-may-1989 UM13 BGHIPY LT 64.600 UGL 30.0 25-may-1989 UM13 BKFANT LT 3.280 UGL 30.0 25-may-1989 UM13 BKFANT LT 3.280 UGL 30.0 25-may-1989 UM13 BZALC ND 0.100 UGL 30.0 25-may-1989 99 C13DCP LT 1.800 UGL 30.0 25-may-1989 99 C2H5CL LT 6.900 UGL 30.0 25-may-1989 99 C2H5CL LT 6.900 UGL 30.0 25-may-1989 99 C2H5CL LT 6.900 UGL | | | | | | | |
| 30.0 25-may-1989 UM13 B2EHP LT 32.700 UGL 30.0 25-may-1989 UM13 BAANTR LT 0.906 UGL 30.0 25-may-1989 UM13 BAPYR LT 8.290 UGL 30.0 25-may-1989 UM13 BBFANT LT 2.650 UGL 30.0 25-may-1989 UM09 BBHC ND 0.050 UGL 30.0 25-may-1989 UM13 BBHC LT 3.170 UGL 30.0 25-may-1989 UM13 BBZP ND 10.000 UGL 30.0 25-may-1989 SS06 BE LT 2.860 UGL 30.0 25-may-1989 SS06 BE LT 2.860 UGL 30.0 25-may-1989 UM13 BENSLF ND 0.100 UGL 30.0 25-may-1989 UM13 BENSLF ND 6.000 UGL 30.0 25-may-1989 UM13 BENSLF ND 6.000 UGL 30.0 25-may-1989 UM13 BENZID ND 50.000 UGL 30.0 25-may-1989 UM13 BGHIPY LT 64.600 UGL 30.0 25-may-1989 UM13 BGHIPY LT 64.600 UGL 30.0 25-may-1989 UM13 BKFANT LT 3.280 UGL 30.0 25-may-1989 UM13 BKFANT LT 3.280 UGL 30.0 25-may-1989 UM13 BZALC ND 0.100 UGL 30.0 25-may-1989 UM13 BZALC ND 0.100 UGL 30.0 25-may-1989 99 C13DCP LT 1.800 UGL 30.0 25-may-1989 99 C2H3CL LT 13.000 UGL 30.0 25-may-1989 99 C2H5CL LT 13.000 UGL 30.0 25-may-1989 99 C2H5CL LT 1.700 UGL | | | | | | | |
| 30.0 25-may-1989 UM13 BAANTR LT 0.906 UGL 30.0 25-may-1989 UM13 BAPYR LT 8.290 UGL 30.0 25-may-1989 UM13 BBFANT LT 2.650 UGL 30.0 25-may-1989 UH09 BBHC ND 0.050 UGL 30.0 25-may-1989 UM13 BBHC LT 3.170 UGL 30.0 25-may-1989 UM13 BBHC LT 2.860 UGL 30.0 25-may-1989 SS06 BE LT 2.860 UGL 30.0 25-may-1989 UH09 BENSLF ND 0.100 UGL 30.0 25-may-1989 UM13 BENSLF ND 0.100 UGL 30.0 25-may-1989 UM13 BENSLF ND 6.000 UGL 30.0 25-may-1989 UM13 BENSLF ND 6.000 UGL 30.0 25-may-1989 UM13 BENZID ND 50.000 UGL 30.0 25-may-1989 UM13 BGHIPY LT 64.600 UGL 30.0 25-may-1989 UM13 BGHIPY LT 64.600 UGL 30.0 25-may-1989 UM13 BKFANT LT 3.280 UGL 30.0 25-may-1989 UM13 BKFANT LT 3.280 UGL 30.0 25-may-1989 UM13 BZALC ND 0.100 UGL 30.0 25-may-1989 UM13 BZALC ND 0.100 UGL 30.0 25-may-1989 99 C13DCP LT 1.800 UGL 30.0 25-may-1989 99 C2H3CL LT 13.000 UGL 30.0 25-may-1989 99 C2H5CL LT 6.900 UGL 30.0 25-may-1989 99 C2H5CL LT 13.000 UGL | | | | | | | |
| 30.0 25-may-1989 UM13 BAPYR LT 8.290 UGL 30.0 25-may-1989 UM13 BBFANT LT 2.650 UGL 30.0 25-may-1989 UH09 BBHC ND 0.050 UGL 30.0 25-may-1989 UM13 BBHC LT 3.170 UGL 30.0 25-may-1989 UM13 BBHC LT 3.170 UGL 30.0 25-may-1989 UM13 BBEP ND 10.000 UGL 30.0 25-may-1989 UH09 BENSLF ND 0.100 UGL 30.0 25-may-1989 UM13 BENSLF ND 0.100 UGL 30.0 25-may-1989 UM13 BENSLF ND 6.000 UGL 30.0 25-may-1989 UM13 BENSLF ND 50.000 UGL 30.0 25-may-1989 UM13 BENSLF ND 50.000 UGL 30.0 25-may-1989 UM13 BGHIPY LT 64.600 UGL 30.0 25-may-1989 UM13 BKFANT LT 3.280 UGL 30.0 25-may-1989 UM13 BKFANT LT 3.280 UGL 30.0 25-may-1989 UM13 BZALC ND 0.100 UGL 30.0 25-may-1989 99 BRDCLM ND 5.000 UGL 30.0 25-may-1989 99 C13DCP LT 1.800 UGL 30.0 25-may-1989 99 C13DCP LT 1.800 UGL 30.0 25-may-1989 99 C2H3CL LT 13.000 UGL 30.0 25-may-1989 99 C2H5CL LT 6.900 UGL 30.0 25-may-1989 99 C2H5CL LT 6.900 UGL 30.0 25-may-1989 99 C2H5CL LT 1.700 UGL | | | | | | | |
| 30.0 25-may-1989 UM13 BBFANT LT 2.650 UGL 30.0 25-may-1989 UH09 BBHC ND 0.050 UGL 30.0 25-may-1989 UM13 BBHC LT 3.170 UGL 30.0 25-may-1989 UM13 BBZP ND 10.000 UGL 30.0 25-may-1989 SS06 BE LT 2.860 UGL 30.0 25-may-1989 UH09 BENSLF ND 0.100 UGL 30.0 25-may-1989 UM13 BENSLF ND 6.000 UGL 30.0 25-may-1989 UM13 BENSLF ND 6.000 UGL 30.0 25-may-1989 UM13 BENZID ND 50.000 UGL 30.0 25-may-1989 UM13 BGHIPY LT 64.600 UGL 30.0 25-may-1989 UM13 BKFANT LT 3.280 UGL 30.0 25-may-1989 UM13 BKFANT LT 3.280 UGL 30.0 25-may-1989 99 BRDCLM ND 5.000 UGL 30.0 25-may-1989 99 BRDCLM ND 5.000 UGL 30.0 25-may-1989 99 C13DCP LT 1.800 UGL 30.0 25-may-1989 99 C2H3CL LT 13.000 UGL 30.0 25-may-1989 99 C2H3CL LT 13.000 UGL 30.0 25-may-1989 99 C2H5CL LT 6.900 UGL | | | | | | | |
| 30.0 25-may-1989 UH09 BBHC ND 0.050 UGL 30.0 25-may-1989 UM13 BBHC LT 3.170 UGL 30.0 25-may-1989 UM13 BBZP ND 10.000 UGL 30.0 25-may-1989 SS06 BE LT 2.860 UGL 30.0 25-may-1989 UH09 BENSLF ND 0.100 UGL 30.0 25-may-1989 UM13 BENSLF ND 6.000 UGL 30.0 25-may-1989 UM13 BENSLF ND 6.000 UGL 30.0 25-may-1989 UM13 BENZID ND 50.000 UGL 30.0 25-may-1989 UM13 BGHIPY LT 64.600 UGL 30.0 25-may-1989 UM13 BKFANT LT 3.280 UGL 30.0 25-may-1989 UM13 BKFANT LT 3.280 UGL 30.0 25-may-1989 99 BRDCLM ND 5.000 UGL 30.0 25-may-1989 99 BRDCLM ND 5.000 UGL 30.0 25-may-1989 99 C13DCP LT 1.800 UGL 30.0 25-may-1989 99 C2H3CL LT 13.000 UGL 30.0 25-may-1989 99 C2H5CL LT 6.900 UGL 30.0 25-may-1989 99 C2H5CL LT 6.900 UGL | | | | | | | |
| 30.0 25-may-1989 UM13 BBHC LT 3.170 UGL 30.0 25-may-1989 UM13 BBZP ND 10.000 UGL 30.0 25-may-1989 SSO6 BE LT 2.860 UGL 30.0 25-may-1989 UH09 BENSLF ND 0.100 UGL 30.0 25-may-1989 UM13 BENSLF ND 6.000 UGL 30.0 25-may-1989 UM13 BENZID ND 50.000 UGL 30.0 25-may-1989 UM13 BGHIPY LT 64.600 UGL 30.0 25-may-1989 UM13 BGHIPY LT 64.600 UGL 30.0 25-may-1989 UM13 BKFANT LT 3.280 UGL 30.0 25-may-1989 99 BRDCLM ND 5.000 UGL 30.0 25-may-1989 UM13 BZALC ND 0.100 UGL 30.0 25-may-1989 UM13 BZALC ND 0.100 UGL 30.0 25-may-1989 99 C13DCP LT 1.800 UGL 30.0 25-may-1989 99 C2H3CL LT 13.000 UGL 30.0 25-may-1989 99 C2H5CL LT 6.900 UGL 30.0 25-may-1989 99 C2H5CL LT 6.900 UGL 30.0 25-may-1989 99 C2H5CL LT 6.900 UGL 30.0 25-may-1989 99 C2H5CL LT 1.700 UGL | | | | | | | |
| 30.0 25-may-1989 UM13 BBZP ND 10.000 UGL 30.0 25-may-1989 SS06 BE LT 2.860 UGL 30.0 25-may-1989 UH09 BENSLF ND 0.100 UGL 30.0 25-may-1989 UM13 BENSLF ND 6.000 UGL 30.0 25-may-1989 UM13 BENZID ND 50.000 UGL 30.0 25-may-1989 UM13 BGHIPY LT 64.600 UGL 30.0 25-may-1989 UM13 BKFANT LT 3.280 UGL 30.0 25-may-1989 99 BRDCLM ND 5.000 UGL 30.0 25-may-1989 UM13 BZALC ND 0.100 UGL 30.0 25-may-1989 UM13 BZALC ND 0.100 UGL 30.0 25-may-1989 99 C13DCP LT 1.800 UGL 30.0 25-may-1989 99 C2H3CL LT 13.000 UGL 30.0 25-may-1989 99 C2H5CL LT 6.900 UGL 30.0 25-may-1989 99 C2H5CL LT 6.900 UGL | | | | | | | |
| 30.0 25-may-1989 SS06 BE LT 2.860 UGL 30.0 25-may-1989 UH09 BENSLF ND 0.100 UGL 30.0 25-may-1989 UM13 BENSLF ND 6.000 UGL 30.0 25-may-1989 UM13 BENZID ND 50.000 UGL 30.0 25-may-1989 UM13 BGHIPY LT 64.600 UGL 30.0 25-may-1989 UM13 BKFANT LT 3.280 UGL 30.0 25-may-1989 99 BRDCLM ND 5.000 UGL 30.0 25-may-1989 UM13 BZALC ND 0.100 UGL 30.0 25-may-1989 UM13 BZALC ND 0.100 UGL 30.0 25-may-1989 99 C13DCP LT 1.800 UGL 30.0 25-may-1989 99 C2H3CL LT 13.000 UGL 30.0 25-may-1989 99 C2H5CL LT 6.900 UGL 30.0 25-may-1989 99 C2H5CL LT 6.900 UGL | | | | | | | |
| 30.0 25-may-1989 UH09 BENSLF ND 0.100 UGL 30.0 25-may-1989 UM13 BENSLF ND 6.000 UGL 30.0 25-may-1989 UM13 BENZID ND 50.000 UGL 30.0 25-may-1989 UM13 BGHIPY LT 64.600 UGL 30.0 25-may-1989 UM13 BKFANT LT 3.280 UGL 30.0 25-may-1989 99 BRDCLM ND 5.000 UGL 30.0 25-may-1989 UM13 BZALC ND 0.100 UGL 30.0 25-may-1989 99 C13DCP LT 1.800 UGL 30.0 25-may-1989 99 C2H3CL LT 13.000 UGL 30.0 25-may-1989 99 C2H5CL LT 6.900 UGL 30.0 25-may-1989 99 C6H6 LT 1.700 UGL | | | | | | | |
| 30.0 25-may-1989 UM13 BENSLF ND 6.000 UGL 30.0 25-may-1989 UM13 BENZID ND 50.000 UGL 30.0 25-may-1989 UM13 BGHIPY LT 64.600 UGL 30.0 25-may-1989 UM13 BKFANT LT 3.280 UGL 30.0 25-may-1989 99 BRDCLM ND 5.000 UGL 30.0 25-may-1989 UM13 BZALC ND 0.100 UGL 30.0 25-may-1989 99 C13DCP LT 1.800 UGL 30.0 25-may-1989 99 C2H3CL LT 13.000 UGL 30.0 25-may-1989 99 C2H5CL LT 6.900 UGL 30.0 25-may-1989 99 C6H6 LT 1.700 UGL | | - | | | | | |
| 30.0 25-may-1989 UM13 BENZID ND 50.000 UGL 30.0 25-may-1989 UM13 BGHIPY LT 64.600 UGL 30.0 25-may-1989 UM13 BKFANT LT 3.280 UGL 30.0 25-may-1989 99 BRDCLM ND 5.000 UGL 30.0 25-may-1989 UM13 BZALC ND 0.100 UGL 30.0 25-may-1989 99 C13DCP LT 1.800 UGL 30.0 25-may-1989 99 C2H3CL LT 13.000 UGL 30.0 25-may-1989 99 C2H5CL LT 6.900 UGL 30.0 25-may-1989 99 C6H6 LT 1.700 UGL | | | | | | | |
| 30.0 25-may-1989 UM13 BGHIPY LT 64.600 UGL 30.0 25-may-1989 UM13 BKFANT LT 3 280 UGL 30.0 25-may-1989 99 BRDCLM ND 5.000 UGL 30.0 25-may-1989 UM13 BZALC ND 0.100 UGL 30.0 25-may-1989 99 C13DCP LT 1.800 UGL 30.0 25-may-1989 99 C2H3CL LT 13.000 UGL 30.0 25-may-1989 99 C2H5CL LT 6.900 UGL 30.0 25-may-1989 99 C6H6 LT 1.700 UGL | | | | | | | |
| 30.0 25-may-1989 UM13 BKFANT LT 3 280 UGL 30.0 25-may-1989 99 BRDCLM ND 5.000 UGL 30.0 25-may-1989 UM13 BZALC ND 0.100 UGL 30.0 25-may-1989 99 C13DCP LT 1.800 UGL 30.0 25-may-1989 99 C2H3CL LT 13.000 UGL 30.0 25-may-1989 99 C2H5CL LT 6.900 UGL 30.0 25-may-1989 99 C6H6 LT 1.700 UGL | | | | | | | |
| 30.0 25-may-1989 99 BRDCLM ND 5:000 UGL 30.0 25-may-1989 UM13 BZALC ND 0.100 UGL 30.0 25-may-1989 99 C13DCP LT 1.800 UGL 30.0 25-may-1989 99 C2H3CL LT 13.000 UGL 30.0 25-may-1989 99 C2H5CL LT 6.900 UGL 30.0 25-may-1989 99 C6H6 LT 1.700 UGL | | 25-may-1989 | | | | | |
| 30.0 25-may-1989 UM13 BZALC ND 0.100 UGL 30.0 25-may-1989 99 C13DCP LT 1.800 UGL 30.0 25-may-1989 99 C2H3CL LT 13.000 UGL 30.0 25-may-1989 99 C2H5CL LT 6.900 UGL 30.0 25-may-1989 99 C6H6 LT 1.700 UGL | | | | | | 5,000 | |
| 30.0 25-may-1989 99 C13DCP LT 1.800 UGL 30.0 25-may-1989 99 C2H3CL LT 13.000 UGL 30.0 25-may-1989 99 C2H5CL LT 6.900 UGL 30.0 25-may-1989 99 C6H6 LT 1.700 UGL | | | | | | | |
| 30.0 25-may-1989 99 C2H3CL LT 13.000 UGL 30.0 25-may-1989 99 C2H5CL LT 6.900 UGL 30.0 25-may-1989 99 C6H6 LT 1.700 UGL | | | | | | | |
| 30.0 25-may-1989 99 C2H5CL LT 6.900 UGL 30.0 25-may-1989 99 C6H6 LT 1.700 UGL | | | | | | | |
| 30.0 25-may-1989 99 C6H6 LT 1.700 UGL | | | | | | | |
| • | | | | | | | |
| | 30.0 | 25-may-1989 | 99 | CCL4 | LT | 1.000 | UGL |

IR Installation: Gaithersburg Research FacilityPage 20 Analytical Results for Chemical Ground Water From: 01/01/75 and 12/7/89

Site: WELL GNL-2 (continued)

| SAMPLE DEPTH (ft) | SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------------|----------------|----------------|----------|------|-----------------|-------|
| | | | | | | |
| 30.0 | 25-may-1989 | SS06 | CD | | 7.830 | UGL |
| 30.0 | 25-may-1989 | 99 | CH2CL2 | LT | 23.000 | UGL |
| 30.0 | 25-may-1989 | 99 | CH3BR | ND | 10.000 | UGL |
| | 25-may-1989 | 99 | CH3CL | LT | 1.800 | UGL |
| | 25-may-1989 | 99 | CHBR3 | LT | 3.700 | UGL |
| 30.0 | 25-may-1989 | 99 | CHCL3 | LT | 1.000 | UGL |
| 30.0 | 25-may-1989 | UM13 | CHRY | LT | 1.150 | UGL |
| 30.0 | 25-may-1989 | UM13 | CL6BZ | LT | 2.850 | UGL |
| 30.0 | 25-may-1989 | UM13 | CL6CP | ND | 10.000 | UGL |
| 30.0 | 25-may-1989 | UM13 | CL6ET | LT | 13.300 | UGL |
| 30.0 | 25-may-1989 | 99 | CLC6H5 | LT | 1.200 | UGL |
| 30.0 | 25-may-1989 | UH09 | CLDAN | LT | 0.046 | UGL |
| 30.0 | 25-may-1989 | UM13 | CLDAN | LT | 10.200 | UGL |
| 30.0 | 25-may-1989 | SS06 | CR | LT | 4.440 | UGL |
| | 25-may-1989 | SS06 | CU | | 10. 4 00 | UGL |
| | 25-may-1989 | TF19 | CYN | LT | 5.500 | UGL |
| | 25-may-1989 | UM13 | DBAHA | LT | 12.300 | UGL |
| | 25-may-1989 | UH09 | DBHC | ND | 0.500 | UGL |
| 30.0 | 25-may-1989 | UM13 | DBHC | LT | 621.000 | UGL |
| 30.0 | 25-may-1989 | 99 | DBRCLM | LT | 1.800 | UGL |
| 30.0 | 25-may-1989 | UM13 | DEP | ND | 10.000 | UGL |
| | 25-may-1989 | UH09 | DLDRN | LT | 0.005 | UGL |
| | 25-may-1989 | UM13 | DLDRN | LT | 2.550 | UGL |
| | 25-may-1989 | UM13 | DMP | ND | 10.000 | UGL |
| | 25-may-1989 | UM13 | DNBP | ND | 10.000 | UGL |
| | 25-may-1989 | UM13 | DNOP | LT | 21.4 00 | UGL |
| | 25-may-1989 | UH09 | ENDRN | ND | 0.100 | UGL |
| | 25-may-1989 | UM13 | ENDRN | LT | 34.200 | UGL |
| | 25-may-1989 | UH09 | ENDRNK | ND | 0.100 | UGL |
| | 25-may-1989 | UHOS | ESFSO4 | ND | 0.100 | UGL |
| | 25-may-1989 | UM13 | ESFSO4 | ND | 6.000 | UGL |
| | 25-may-1989 | 99 | ETC6H5 | LT | 1.400 | UGL |
| | 25-may-1989 | UM13 | FANT | LT | 1.150 | UGL |
| | 25-may-1989 | UM13 | FLRENE | ND | 10.000 | UGL |
| | 25-may-1989 | UM13 | HCBD | LT | 7.890 | UGL |
| | 25-may-1989 | 99 | HG | | 0.110 | UGL |
| | 25-may-1989 | UH09 | HPCL | | 0.100 | UGL |
| | 25-may-1989 | UM13 | HPCL | LT | 4.910 | UGL |
| | 25-may-1989 | UH09 | HPCLE | LT | 0.086 | UGL |
| | 25-may-1989 | UM13 | HPCLE | LT | 6.440 | UGL |
| | 25-may-1989 | UM13 | ICDPYR | LT | 128.000 | UGL |
| | 25-may-1989 | UH09 | ISODR | LT | 0.041 | UGL |
| | 25-may-1989 | UM13 | ISOPHR | ND | 0.100 | UGL |
| | 25-may-1989 | UH09 | LIN | LT | 0.029 | UGL |
| | 25-may-1989 | UM13 | LIN | LT | 26.000 | UGL |
| | 25-may-1989 | 99 | MEC6H5 | LT | 1.800 | UGL |
| | 25-may-1989 | UH09 | MEXCLR | ND | 0.500 | UGL |
| 30.0 | 25-may-1989 | UM13 | NAP | LT | 3.510 | UGL |

IR Installation: Gaithersburg Research FacilityPage 21 Analytical Results for Chemical Ground Water From: 01/01/75 and 12/7/89

Site: WELL GNL-2 (continued)

| SAMPLE | SAMPLE | TEST | COMPOUND | BOOL | CONCENTRATION | Iniime |
|------------|-------------|--------|----------|------|---------------|------------|
| DEPTH (ft) | DATE | METHOD | COMPOUND | POOL | CONCENTRATION | UNITS |
| 30.0 | 25-may-1989 | UM13 | NB | ND | 10.000 | UGL |
| 30.0 | 25-may-1989 | SS06 | NI | LT | 15.300 | UGL |
| 30.0 | 25-may-1989 | UM13 | NNDMEA | ND | 10.000 | UGL |
| 30.0 | 25-may-1989 | UM13 | NNDNPA | LT | 5.630 | UGL |
| 30.0 | 25-may-1989 | UM13 | NNDPA | ND | 6.700 | UGL |
| 30.0 | 25-may-1989 | SD11 | PB | LT | 1.700 | UGL |
| 30.0 | 25-may-1989 | UH09 | PCB016 | LT | 0.133 | UGL |
| 30.0 | 25-may-1989 | UM13 | PCB016 | ND | 30.000 | UGL |
| 30.0 | 25-may-1989 | UH09 | PCB221 | ND | 0.500 | UGL |
| 30.0 | 25-may-1989 | UM13 | PCB221 | ND | 30.000 | UGL |
| 30.0 | 25-may-1989 | UHO9 | PCB232 | ND | 0.500 | UGL |
| 30.0 | 25-may-1989 | UM13 | PCB232 | ND | 30.000 | UGL |
| 30.0 | 25-may-1989 | UH09 | PCB242 | ND | 0.500 | UGL |
| 30.0 | 25-may-1989 | UM13 | PCB242 | ND | 30.000 | UGL |
| 30.0 | 25-may-1989 | UH09 | PCB248 | ND | 0.500 | UGL |
| 30.0 | 25-may-1989 | UM13 | PCB248 | ND | 30.000 | UGL |
| 30.0 | 25-may-1989 | UH09 | PCB254 | ND | 1.000 | UGL |
| 30.0 | 25-may-1989 | UM13 | PCB254 | ND | 60.000 | UGL |
| 30.0 | 25-may-1989 | UH09 | PCB260 | LT | 0.087 | UGL |
| 30.0 | 25-may-1989 | UM13 | PCB260 | ND | 60.000 | UGL |
| 30.0 | 25-may-1989 | UM13 | PCP | ND | 50.000 | UGL |
| 30.0 | 25-may-1989 | UM13 | PHANTR | LT | 0.759 | UGL |
| 30.0 | 25-may-1989 | UH09 | PPDDD | LT | 0.013 | UGL |
| 30.0 | 25-may-1989 | UM13 | PPDDD | LT | 5.610 | UGL |
| 30.0 | 25-may-1989 | UH09 | PPDDE | LT | 0.022 | UGL |
| 30.0 | 25-may-1989 | UM13 | PPDDE | LT | 11.200 | UGL |
| 30.0 | 25-may-1989 | UH09 | PPDDT | LT | 0.037 | UGL |
| 30.0 | 25-may-1989 | UM13 | PPDDT | LT | 5.070 | UGL |
| 30.0 | 25-may-1989 | UM13 | PYR | LT | 9.380 | UGL |
| 0.0 | 25-may-1989 | SD11 | SB | LT | 2.500 | UGL |
| 0.0 | 25-may-1989 | SD11 | SE | LT | 6.940 | UGL |
| 30.0 | 25-may-1989 | 99 | TCLEA | LT | 7.100 | UGL |
| 30.0 | 25-may-1989 | 99 | TCLEE | LT | 2.300 | UGL |
| 30.0 | 25-may-1989 | SS06 | TL | LT | 59.900 | UGL |
| 30.0 | 25-may-1989 | 99 | TRCLE | LT | 1.000 | UGL |
| 30.0 | 25-may-1989 | UHO9 | TXPHEN | ND | 1.000 | UGL |
| 30.0 | 25-may-1989 | UM13 | TXPHEN | ND | 60.000 | UGL |
| 30.0 | 25-may-1989 | UM13 | UNK536 | | 16.500 | UGL |
| 30.0 | 25-may-1989 | UM13 | UNK538 | | 16.000 | UGL |
| 30.0 | 25-may-1989 | UM13 | UNK540 | | 4.240 | UGL |
| 30.0 | 25-may-1989 | UM13 | UNK540 | | 4.180 | UGL |
| 30.0 | 25-may-1989 | UM13 | UNK541 | | 41.700 | UGL |
| 30.0 | 25-may-1989 | UM13 | UNK542 | | 8.980 | UGL |
| 30.0 | 25-may-1989 | UM13 | UNK543 | | 6.760 | UGL |
| 30.0 | 25-may-1989 | UM13 | UNK543 | | 8.260 | UGL |
| 30.0 | 25-may-1989 | UM13 | UNK544 | | 20.800 | UGL UGL |
| 30.0 | 25-may-1989 | SS06 | ZN | | 42.600 | ענטט |

IR Installation: Gaithersburg Research FacilityPage 22 Analytical Results for Chemical Ground Water From: 01/01/75 and 12/7/89

Site: WELL GNL-3

| SAMPLE DEPTH (ft) | SAMPLE) DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------------|----------------------------|----------------|------------------|----------|----------------|------------|
| | | | 111805 | | 1 000 | |
| 35.0 | 25-may-1989 | 99 | 111TCE | LT | 1.000 | UGL |
| 35.0 | 25-may-1989 | 99 | 112TCE | LT | 1.700 | UGL |
| 35.0 | 25-may-1989 | 99 | 11DCE | LT | 6.800 | UGL |
| 35.0 | 25-may-1989 | 99 | 11DCLE | LT | 2.700 | UGL |
| 35.0 | 25-may-1989 | UM13 | 124TCB | LT | 4.420 | UGL |
| 35.0 | 25-may-1989 | 99 | 12DCE | LT | 2.200 | UGL |
| 35.0 | 25-may-1989 | UM13 | 12DCLB | LT | 7.320 | UGL |
| 35.0 | 25-may-1989 | 99 | 12DCLE 12DCLP | LT LT | 1.000 | UGL |
| 35.0 | 25-may-1989 | 99 11141 2 | 13DCLB | LT | 3.200 | UGL |
| 35.0 | 25-may-1989 | UM13 | 14DCLB | LT | 8.270 7.970 | UGL |
| 35.0 | 25-may-1989 | UM13 UM13 | 246TCP | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | 24DCLP | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | 24DCLP 24DMPN | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | 24DMPN 24DNP | ND | 50.000 | UGL UGL |
| 35.0 | 25-may-1989 | UM13 | 24DNF 24DNT | LT | 5.840 | UGL |
| 35.0 35.0 | 25-may-1989 | UM13 | 26DNT | LT | 5.520 | UGL |
| 35.0 35.0 | 25-may-1989 | 99 | 2CLEVE | LT | 1.600 | UGL |
| | 25-may-1989 | UM13 | 2CLEVE 2CLP | ND | 10.000 | UGL |
| 35.0 35.0 | 25-may-1989 25-may-1989 | UM13 | 2CLP 2CNAP | LT | 2.070 | UGL |
| 35.0 35.0 | 25-may-1989 | UM13 | 2NP | ND | 50.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | 33DCBD | ND | 20.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | 46DN2C | ND | 50.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | 4BRPPE | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | 4CL3C | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | 4CLPPE | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | 4NP | ND | 50.000 | UGL |
| 35.0 | 25-may-1989 | UH09 | ABHC | ND | 0.050 | UGL |
| 35.0 | 25-may-1989 | UM13 | ABHC | ND | 3.000 | UGL |
| 35.0 | 25-may-1989 | 99 | ACROLN | ND | 100.000 | UGL |
| 35.0 | 25-may-1989 | 99 | ACRYLO | ND | 100.000 | UGL |
| 35.0 | 25-may-1989 | UH09 | AENSLF | ND | 0.050 | UGL |
| 35.0 | 25-may-1989 | UM13 | AENSLF | ND | 3.000 | UGL |
| 35.0 | 25-may-1989 | SS06 | AG | LT | 5.450 | UGL |
| 35.0 | 25-may-1989 | UH09 | ALDRN | LT | 0.022 | UGL |
| 35.0 | 25-may-1989 | UM13 | ALDRN | LT | 5.780 | UGL |
| 35.0 | 25-may-1989 | UM13 | ANAPNE | LT | 1.260 | UGL |
| 35.0 | 25-may-1989 | UM13 | ANAPYL | LT | 3.300 | UGL |
| 35.0 | 25-may-1989 | UM13 | ANTHRC | LT | 1.110 | UGL |
| 0.0 | 25-may-1989 | SD11 | AS | LT | 4.190 | UGL |
| 35.0 | 25-may-1989 | UM13 | B2CEXM | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | B2CIPE | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | B2CLEE | LT | 1.500 | UGL |
| 35.0 | 25-may-1989 | UM13 | B2EHP | LT | 32.700 | UGL |
| 35.0 | 25-may-1989 | UM13 | BAANTR | LT | 0.906 | UGL |
| 35.0 | 25-may-1989 | UM13 | BAPYR | LT | 8.290 | UGL |
| 35.0 | 25-may-1989 | UM13 | BBFANT | LT | 2.650 | UGL |
| 35.0 | 25-may-1989 | UH09 | BBHC | ND | 0.050 | UGL |

IR Installation: Gaithersburg Research FacilityPage 23 Analytical Results for Chemical Ground Water From: 01/01/75 and 12/7/89

(continued) Site: WELL GNL-3

| SAMPLE | SAMPLE | TEST | COMBOIND | BOOL | CONCENTRATION | UNITS |
|--------------|----------------------------|--------------|----------|------|---------------|------------|
| DEPTH (ft) |) DATE | METHOD | COMPOUND | BOOL | | |
| | | | BBHC | LT | 3.170 | UGL |
| 35.0 | 25-may-1989 | UM13 UM13 | BBZP | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | SS06 | BE | LT | 2.860 | UGL |
| 35.0 | 25-may-1989 | UH09 | BENSLF | ND | 0.100 | UGL |
| 35.0 | 25-may-1989 | UM13 | BENSLF | ND | 6.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | BENZID | ND | 50.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | BGHIPY | LT | 64.600 | UGL |
| 35.0 | 25-may-1989 | UM13 | BKFANT | LT | 3.280 | UGL |
| 35.0 | 25-may-1989 25-may-1989 | 99 | BRDCLM | ND | 5.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | BZALC | ND | 0.100 | UGL |
| 35.0 | 25-may-1989 | 99 | C13DCP | LT | 1.800 | UGL |
| 35.0 35.0 | 25-may-1989 | 99 | C2H3CL | LT | 13.000 | UGL |
| 35.0 35.0 | 25-may-1989 | 99 | C2H5CL | LT | 6.900 | UGL |
| 35.0 35.0 | 25-may-1989 | 99 | C6H6 | LT | 1.700 | UGL |
| 35.0 | 25-may-1989 | 99 | CCL4 | LT | 1.000 | UGL |
| 35.0 | 25-may-1989 | SS06 | CD | | 8.480 | UGL |
| 35.0 | 25-may-1989 | 99 | CH2CL2 | LT | 23.000 | UGL |
| 35.0 | 25-may-1989 | 99 | CH3BR | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | 99 | CH3CL | LT | 1.800 | UGL |
| 35.0 | 25-may-1989 | 99 | CHBR3 | LT | 3.700 | UGL |
| 35.0 | 25-may-1989 | 99 | CHCL3 | LT | 1.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | CHRY | LT | 1.150 | UGL |
| 35.0 | 25-may-1989 | UM13 | CL6BZ | LT | 2.850 | UGL |
| 35.0 | 25-may-1989 | UM13 | CL6CP | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | CL6ET | LT | 13.300 | UGL |
| 35.0 | 25-may-1989 | 99 | CLC6H5 | LT | 1.200 | UGL |
| 35.0 | 25-may-1989 | UH09 | CLDAN | LT | 0.046 | UGL |
| 35.0 | 25-may-1989 | UM13 | CLDAN | LT | 10.200 | UGL |
| 35.0 | 25-may-1989 | SS06 | CR | LT | 4.440 | UGL |
| 35.0 | 25-may-1989 | SS06 | CU | | 14.400 | UGL |
| 0.0 | 25-may-1989 | TF19 | CYN | LT | 5.500 | UGL |
| 35.0 | 25-may-1989 | UM13 | DBAHA | LT | 12.300 | UGL |
| 35.0 | 25-may-1989 | UH09 | DBHC | ND | 0.050 | UGL |
| 35.0 | 25-may-1989 | UM13 | DBHC | LT | 621.000 | UGL |
| 35.0 | 25-may-1989 | 99 | DBRCLM | LT | 1.800 | UGL |
| 35.0 | 25-may-1989 | UM13 | DEP | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UH09 | DLDRN | LT | 0.005 | UGL |
| 35.0 | 25-may-1989 | UM13 | DLDRN | LT | 2.550 | UGL |
| 35.0 | 25-may-1989 | UM13 | DMP | ОИ | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | DNBP | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | DNOP | LT | 21.400 | UGL |
| 35.0 | 25-may-1989 | UH09 | ENDRN | ND | 0.100 | UGL |
| 35.0 | 25-may-1989 | UM13 | ENDRN | LT | 34.200 | UGL |
| 35.0 | 25-may-1989 | UH09 | ENDRNK | ND | 0.100 | UGL |
| 35.0 | 25-may-1989 | UH09 | ESFS04 | ND | 0.100 | UGL |
| 35.0 | 25-may-1989 | UM13 | ESFS04 | ND | 6.000 | UGL |
| 35.0 | 25-may-1989 | 99 | ETC6H5 | LT | 1.400 | UGL UGL |
| 35.0 | 25-may-1989 | UM13 | FANT | LT | 1.150 | 001 |

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Site: WELL GNL-3 (continued)

| SAMPLE | SAMPLE | TEST | COMBOINE | 2007 | 3013717717171 | |
|--------------|----------------------------|--------------|----------------|----------|----------------------|------------|
| DEPTH (ft) | DATE | METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
| 35.0 | 25-may-1989 | UM13 | FLRENE | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | HCBD | LT | 7.890 | UGL |
| 35.0 | 25-may-1989 | 99 | HG | | 0.120 | UGL |
| 35.0 | 25-may-1989 | UH09 | HPCL | | 0.107 | UGL |
| 35.0 | 25-may-1989 | UM13 | HPCL | LT | 4.910 | UGL |
| 35.0 | 25-may-1989 | UH09 | HPCLE | LT | 0.086 | UGL |
| 35.0 | 25-may-1989 | UM13 | HPCLE | LT | 6.440 | UGL |
| 35.0 | 25-may-1989 | UM13 | ICDPYR | LT | 128.000 | UGL |
| 35.0 | 25-may-1989 | UH09 | ISODR | LT | 0.041 | UGL |
| 35.0 | 25-may-1989 | UM13 | ISOPHR | ND | 0.100 | UGL |
| 35.0 | 25-may-1989 | UH09 | LIN | LT | 0.029 | UGL |
| 35.0 | 25-may-1989 | UM13 | LIN | LT | 26.000 | UGL |
| 35.0 | 25-may-1989 | 99 | MEC6H5 | LT | 1.800 | UGL |
| 35.0 | 25-may-1989 | UH09 | MEXCLR | ND | 0.500 | UGL |
| 35.0 | 25-may-1989 | UM13 | NAP | LT | 3.510 | UGL |
| 35.0 | 25-may-1989 | UM13 | NB | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | SS06 | NI | LT | 15.300 | UGL |
| 35.0 | 25-may-1989 | UM13 | NNDMEA | ND | 10.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | NNDNPA | LT | 5.630 | UGL |
| 35.0 | 25-may-1989 | UM13 | NNDPA | ND | 6.700 | UGL |
| 35.0 | 25-may-1989 | SD11 | PB | | 35.000 | UGL |
| 35.0 | 25-may-1989 | UH09 | PCB016 | LT | 0.133 | UGL |
| 35.0 | 25-may-1989 | UM13 | PCB016 | ND | 30.000 | UGL |
| 35.0 | 25-may-1989 | UH09 | PCB221 | ND | 0.500 | UGL |
| 35.0 | 25-may-1989 | UM13 | PCB221 | ND | 30.000 | UGL |
| 35.0 | 25-may-1989 | UHO9 | PCB232 | ND | 0.500 | UGL |
| 35.0 | 25-may-1989 | UM13 | PCB232 | ND | 30.000 | ugl |
| 35.0 | 25-may-1989 | UHO9 | PCB242 | ND | 0.500 | UGL |
| 35.0 | 25-may-1989 | UM13 | PCB242 | ND | 30.000 | UGL |
| 35.0 | 25-may-1989 | UHO9 | PCB248 | ND | 0.500 | UGL |
| 35.0 | 25-may-1989 | UM13 | PCB248 | ND | 30.000 | UGL |
| 35.0 | 25-may-1989 | UH09 | PCB254 | ND | 1.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | PCB254 | ND | 60.000 | UGL |
| 35.0 | 25-may-1989 | UH09 | PCB260 | LT | 0.087 | UGL |
| 35.0 | 25-may-1989 | UM13 | PCB260 | ND | 60.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | PCP | ND | 50.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | PHANTR | LT | 0.759 | UGL |
| 35.0 | 25-may-1989 | UH09 | PPDDD | LT | 0.013 | UGL |
| 35.0 | 25-may-1989 | UM13 | PPDDD | LT | 5.610 | UGL |
| 35.0 | 25-may-1989 25-may-1989 | UH09 UM13 | PPDDE | LT | 0.022 | UGL |
| 35.0 35.0 | 25-may-1989 | UHO9 | PPDDE PPDDT | LT LT | 11.200 0.037 | ugl ugl |
| 35.0 | 25-may-1989 | UM13 | PPDDT | | 5.070 | UGL |
| 35.0 | 25-may-1989 25-may-1989 | UM13 | PYR | LT LT | 9.380 | UGL |
| 0.0 | 25-may-1989 | SD11 | SB | LT | 2.500 | UGL |
| 0.0 | 25-may-1989 | SD11 | SE | LT | 6.940 | UGL |
| 35.0 | 25-may-1989 | 99 | TCLEA | LT | 7.100 | UGL |
| 35.0 | 25-may-1989 | 99 | TCLEE | LT | 2.300 | UGL |
| 55.0 | as may 1505 | | TOURE | | 2.500 | 300 |

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Site: WELL GNL-3 (continued)

| SAMPLE DEPTH (ft | SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|---------------------|----------------|----------------|----------|------|---------------|-------|
| 35.0 | 25-may-1989 | SS06 | TL | LT | 59.900 | UGL |
| 35.0 | 25-may-1989 | 99 | TRCLE | LT | 1.000 | UGL |
| 35.0 | 25-may-1989 | UH09 | TXPHEN | ND | 1.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | TXPHEN | ND | 60.000 | UGL |
| 35.0 | 25-may-1989 | UM13 | UNK536 | | 11.200 | UGL |
| 35.0 | 25-may-1989 | UM13 | UNK538 | | 11.700 | UGL |
| 35.0 | 25-may-1989 | UM13 | UNK541 | | 36.400 | UGL |
| 35.0 | 25-may-1989 | UM13 | UNK542 | | 8.880 | UGL |
| 35.0 | 25-may-1989 | UM13 | UNK543 | | 6.940 | UGL |
| 35.0 | 25-may-1989 | UM13 | UNK543 | | 6.080 | UGL |
| 35.0 | 25-may-1989 | UM13 | UNK544 | | 18.300 | UGL |
| 35.0 | 25-may-1989 | UM13 | UNK599 | | 4.830 | UGL |
| 35.0 | 25-may-1989 | SS06 | ZN | | 62.600 | UGL |

Site: WELL GNL-4

| SAMPLE DEPTH (ft | SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|---------------------|----------------|----------------|----------|------|---------------|-------|
| 15.0 | 25-may-1989 | 99 | 111TCE | LT | 1.000 | UGL |
| 15.0 | 25-may-1989 | 99 | 112TCE | LT | 1.700 | UGL |
| 15.0 | 25-may-1989 | 99 | 11DCE | LT | 6.800 | UGL |
| 15.0 | 25-may-1989 | 99 | 11DCLE | LT | 2.700 | UGL |
| 15.0 | 25-may-1989 | UM13 | 124TCB | LT | 4.420 | UGL |
| 15.0 | 25-may-1989 | 99 | 12DCE | LT | 2.200 | UGL |
| 15.0 | 25-may-1989 | UM13 | 12DCLB | LT | 7.320 | UGL |
| 15.0 | 25-may-1989 | 99 | 12DCLE | LT | 1.000 | UGL |
| 15.0 | 25-may-1989 | 99 | 12DCLP | LT | 3.200 | UGL |
| 15.0 | 25-may-1989 | UM13 | 13DCLB | LT | 8.270 | UGL |
| 15.0 | 25-may-1989 | UM13 | 14DCLB | LT | 7.970 | UGL |
| 15.0 | 25-may-1989 | UM13 | 246TCP | ND | 10.000 | UGL |
| 15.0 | 25-may-1989 | UM13 | 24DCLP | ND | 10.000 | UGL |
| 15.0 | 25-may-1989 | UM13 | 24DMPN | ND | 10.000 | UGL |
| 15.0 | 25-may-1989 | UM13 | 24DNP | ND | 50.000 | UGL |
| 15.0 | 25-may-1989 | UM13 | 24DNT | LT | 5.840 | UGL |
| 15.0 | 25-may-1989 | UM13 | 26DNT | LT | 5.520 | UGL |
| 15.0 | 25-may-1989 | 99 | 2CLEVE | LT | 1.600 | UGL |
| 15.0 | 25-may-1989 | UM13 | 2CLP | ND | 10.000 | UGL |
| 15.0 | 25-may-1989 | UM13 | 2CNAP | LT | 2.070 | UGL |
| 15.0 | 25-may-1989 | UM13 | 2NP | ND | 50.000 | UGL |
| 15.0 | 25-may-1989 | UM13 | 33DCBD | ND | 20.000 | UCL |
| 15.0 | 25-may-1989 | UM13 | 46DN2C | ND | 50.000 | UGL |
| 15.0 | 25-may-1989 | UM13 | 4BRP1L | ND | 10.000 | UGL |
| 15.0 | 25-may-1989 | UM13 | 4CL3C | ND | 10.000 | UGL |
| 15.0 | 25-may-1989 | UM13 | 4CLPPE | ND | 10.000 | UGL |
| 15.0 | 25-may-1989 | UM13 | 4NP | ND | 50.000 | UGL |
| 15.0 | 25-may-1989 | UH09 | ABHC | ND | 0.050 | UGL |

IR Installation: Gaithersburg Research FacilityPage 26 Analytical Results for Chemical Ground Water From: 01/01/75 and 12/7/89

Site: WELL GNL-4 (continued)

| SAMPLE DEPTH (ft) | SAMPLE) DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------------|------------------|----------------|---------------|------|---------------|-------|
| 15.0 | 25-may-1989 | UM13 | ABHC | ND | 3.000 | UGL |
| 15.0 | 25-may-1989 | 99 | ACROLN | ND | 100.000 | UGL |
| 15.0 | 25-may-1989 | 99 | ACRYLO | ND | 100.000 | UGL |
| 15.0 | 25-may-1989 | UH09 | AENSLF | ND | 0.050 | UGL |
| 15.0 | 25-may-1989 | UM13 | AENSLF | ND | 3.000 | UGL |
| 15.0 | 25-may-1989 | SS06 | AG | LT | 5.450 | UGL |
| 15.0 | 25-may-1989 | UH09 | ALDRN | LT | 0.022 | UGL |
| 15.0 | 25-may-1989 | UM13 | ALDRN | LT | 5.780 | UGL |
| 15.0 | 25-may-1989 | UM13 | ANAPNE | LT | 1.260 | UGL |
| 15.0 | 25-may-1989 | UM13 | ANAPYL | LT | 3.300 | UGL |
| 15.0 | 25-may-1989 | UM13 | ANTHRC | LT | 1.110 | UGL |
| 0.0 | 25-may-1989 | SD11 | AS | LT | 4.190 | UGL |
| 15.0 | 25-may-1989 | UM13 | B2CEXM | ND | 10.000 | UGL |
| 15.0 | 25-may-1989 | UM13 | B2CIPE | ND | 10.000 | UGL |
| 15.0 | 25-may-1989 | UM13 | B2CLEE | LT | 1.500 | UGL |
| 15.0 | 25-may-1989 | UM13 | B2EHP | | 115.000 | ugl |
| 15.0 | 25-may-1989 | UM13 | BAANTR | LT | 0.906 | UGL |
| 15.0 | 25-may-1989 | UM13 | BAPYR | LT | 8.290 | UGL |
| 15.0 | 25-may-1989 | UM13 | BBFANT | LT | 2.650 | UGL |
| 15.0 | 25-may-1989 | UH09 | BBHC | ND | 0.050 | UGL |
| 15.0 | 25-may-1989 | UM13 | BBHC | LT | 3.170 | UGL |
| 15.0 | 25-may-1989 | UM13 | BBZP | ND | 10.000 | UGL |
| 15.0 | 25-may-1989 | SS06 | BE | LT | 2.860 | UGL |
| 15.0 | 25-may-1989 | UH09 | BENSLF | ND | 0.100 | UGL |
| 15.0 | 25-may-1989 | UM13 | BENSLF | ND | 6.000 | UGL |
| 15.0 | 25-may-1989 | UM13 | BENZID | ND | 50.000 | UGL |
| 15.0 | 25-may-1989 | UM13 | BGHIPY | LT | 64.600 | UGL |
| 15.0 | 25-may-1989 | UM13 | BKFANT | LT | 3.280 | UGL |
| 15.0 | 25-may-1989 | 99 | BRDCLM | ND | 5.000 | UGL |
| 15.0 | 25-may-1989 | UM13 | BZALC | ND | 0.100 | UGL |
| 15.0 | 25-may-1989 | 99 | C13DCP | LT | 1.800 | UGL |
| 15.0 | 25-may-1989 | 99 | C2H3CL | LT | 13.000 | UGL |
| 15.0 | 25-may-1989 | 99 | C2H5CL | LT | 6.900 | UGL |
| 15.0 | 25-may-1989 | 99 | C6H6 | LT | 1.700 | UGL |
| 15.0 | 25-may-1989 | 99 | CCL4 | LT | 1.000 | UCL |
| 15.0 | 25-may-1989 | SS06 | CD | | 7.730 | UGL |
| 15.0 | 25-may-1989 | 99 | CH2CL2 | LT | 23.000 | UGL |
| 15.0 | 25-may-1989 | 99 | CH3BR | ND | 10.000 | UGL |
| 15.0 | 25-may-1989 | 99 | CH3CL | LT | 1.800 | UGL |
| 15.0 | 25-may-1989 | 99 | CHBR3 | LT | 3.700 | UGL |
| 15.0 | 25-may-1989 | 99 | CHCL3 | LT | 1.000 | UGL |
| 15.0 | 25-may-1989 | UM13 | CHRY | LT | 1.150 | UGL |
| 15.0 | 25-may-1989 | UM13 | CL6BZ | LT | 2.850 | UGL |
| 15.0 | 25-may-1989 | UM13 | CL6CP | ND | 10.000 | UGL |
| 15.0 | 25-may-1989 | UM13 | CL6ET | LT | 13.300 | UGL |
| 15.0 | 25-may-1989 | 99 | CLC6H5 | LT | 1.200 | UGL |
| 15.0 | 25-may-1989 | UH09 | CLDAN | LT | 0.046 | UGL |
| 15.0 | 25-may-1989 | UM13 | CLDAN | LT | 10.200 | UGL |

IR Installation: Gaithersburg Research FacilityPage 27 Analytical Results for Chemical Ground Water From: 01/01/75 and 12/7/89

Site: WELL GNL-4 (continued)

| SAMPLE | SAMPLE | TEST | | | | |
|------------|-------------|--------|----------|-----------|---------------|-------|
| DEPTH (ft) | DATE | METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
| 15.0 | 25-may-1989 | SS06 | CR | LT | 4.440 | UGL |
| 15.0 | 25-may-1989 | SS06 | CU | D1 | 14.400 | UGL |
| 0.0 | 25-may-1989 | TF19 | CYN | LT | 5.500 | UGL |
| 15.0 | 25-may-1989 | UM13 | DBAHA | LT | 12.300 | UGL |
| 15.0 | 25-may-1989 | UH09 | DBHC | ND | 0.050 | UGL |
| 15.0 | 25-may-1989 | UM13 | DBHC | LT | 621.000 | UGL |
| 15.0 | 25-may-1989 | 99 | DBRCLM | LT | 1.800 | UGL |
| 15.0 | 25-may-1989 | UM13 | DEP | ND | 10.000 | UGL |
| 15.0 | 25-may-1989 | UH09 | DLDRN | LT | 0.005 | UGL |
| 15.0 | 25-may-1989 | UM13 | DLDRN | LT | 2.550 | UGL |
| 15.0 | 25-may-1989 | UM13 | DMP | ND | 10.000 | UGL |
| 15.0 | 25-may-1989 | UM13 | DNBP | ND | 10.000 | UGL |
| 15.0 | 25-may-1989 | UM13 | DNOP | LT | 21.400 | UGL |
| 15.0 | 25-may-1989 | UH09 | ENDRN | ND | 0.100 | UGL |
| 15.0 | 25-may-1989 | UM13 | ENDRN | LT | 34.200 | UGL |
| 15.0 | 25-may-1989 | UH09 | ENDRNK | ND | 0.100 | UGL |
| 15.0 | 25-may-1989 | UH09 | ESFS04 | ND | 0.100 | UGL |
| 15.0 | 25-may-1989 | UM13 | ESFS04 | ND | 6.000 | UGL |
| 15.0 | 25-may-1989 | 99 | ETC6H5 | LT | 1.400 | UGL |
| 15.0 | 25-may-1989 | UM13 | FANT | LT | 1.150 | UGL |
| 15.0 | 25-may-1989 | UM13 | FLRENE | ND | 10.000 | UGL |
| 15.0 | 25-may-1989 | UM13 | HCBD | LT | 7.890 | UGL |
| 15.0 | 25-may-1989 | 99 | HG | | 0.100 | UGL |
| 15.0 | 25-may-1989 | UH09 | HPCL | | 0.107 | UGL |
| 15.0 | 25-may-1989 | UM13 | HPCL | LT | 4.910 | UGL |
| 15.0 | 25-may-1989 | UH09 | HPCLE | LT | 0.086 | UGL |
| 15.0 | 25-may-1989 | UM13 | HPCLE | LT | 6.440 | UGL |
| 15.0 | 25-may-1989 | UM13 | ICDPYR | LT | 128.000 | UGL |
| 15.0 | 25-may-1989 | UH09 | ISODR | LT | 0.041 | UGL |
| 15.0 | 25-may-1989 | UM13 | ISOPHR | ND | 0.100 | UGL |
| 15.0 | 25-may-1989 | UH09 | LIN | LT | 0.029 | UGL |
| 15.0 | 25-may-1989 | UM13 | LIN | LT | 26.000 | UGL |
| 15.0 | 25-may-1989 | 99 | MEC6H5 | LT | 1.800 | UGL |
| 15.0 | 25-may-1989 | UH09 | MEXCLR | ND | 0.500 | UGL |
| 15.0 | 25-may-1989 | UM13 | NAP | LT | 3.510 | UGL |
| 15.0 | 25-may-1989 | UM13 | NB | ND | 10.000 | UGL |
| 15.0 | 25-may-1989 | SS06 | NI | LT | 15.300 | UGL |
| 15.0 | 25-may-1989 | UM13 | NNDMEA | ND | 10.000 | UGL |
| 15.0 | 25-may-1989 | UM13 | NNDNPA | LT | 5.630 | UGL |
| 15.0 | 25-may-1989 | UM13 | NNDPA | ND | 6.700 | UGL |
| 15.0 | 25-may-1989 | SD11 | PB | LT | 1.700 | UGL |
| 15.0 | 25-may-1989 | UH09 | PCB016 | LT | 0.133 | UGL |
| 15.0 | 25-may-1989 | UM13 | PCB016 | ND | 30.000 | UGL |
| 15.0 | 25-may-1989 | UHO9 | PCB221 | ND | 0.500 | UGL |
| 15.0 | 25-may-1989 | UM13 | PCB221 | ND | 30.000 | UGL |
| 15.0 | 25-may-1989 | UH09 | PCB232 | ND | 0.500 | UGL |
| 15.0 | 25-may-1989 | UM13 | PCB232 | ND | 30.000 | UGL |
| 15.0 | 25-may-1989 | UH09 | PCB242 | ND | 0.500 | UGL |

IR Installation: Gaithersburg Research FacilityPage 28 Analytical Results for Chemical Ground Water From: 01/01/75 and 12/7/89

Site: WELL GNL-4 (continued)

| | GAMBI E | TEST | | | | |
|------------|----------------|----------------|----------|------|-----------------|------------|
| SAMPLE | SAMPLE DATE | METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
| DEPTH (ft) | DAIS | | | | | |
| 15.0 | 25-may-1989 | UM13 | PCB242 | ND | 30.000 | UGL |
| 15.0 | 25-may-1989 | UH09 | PCB248 | ND | 0.500 | ugl ugl |
| 15.0 | 25-may-1989 | UM13 | PCB248 | ND | 30.000 | UGL |
| 15.0 | 25-may-1989 | UH09 | PCB254 | ND | 1.000 | UGL |
| 15.0 | 25-may-1989 | UM13 | PCB254 | ND | 60.000 | UGL |
| 15.0 | 25-may-1989 | UH09 | PCB260 | LT | 0.087 | UGL |
| 15.0 | 25-may-1989 | UM13 | PCB260 | ND | 60.000 | UGL |
| 15.0 | 25-may-1989 | UM13 | PCP | ND | 50.000 | UGL |
| 15.0 | 25-may-1989 | UM13 | PHANTR | LT | 0.759 | UGL |
| 15.0 | 25-may-1989 | UH09 | PPDDD | LT | 0.013 | UGL |
| 15.0 | 25-may-1989 | UM13 | PPDDD | LT | 5.610 | UGL |
| 15.0 | 25-may-1989 | UH09 | PPDDE | LT | 0.022 | UGL |
| 15.0 | 25-may-1989 | UM13 | PPDDE | LT | 11.200 | UGL |
| 15.0 | 25-may-1989 | UH09 | PPDDT | LT | 0.037 | UGL |
| 15.0 | 25-may-1989 | UM13 | PPDDT | LT | 5.070 | UGL |
| 15.0 | 25-may-1989 | UM13 | PYR | LT | 9.380 | UGL |
| 0.0 | 25-may-1989 | SD11 | SB | LT | 2.500 | UGL |
| 0.0 | 25-may-1989 | SD11 | SE | LI | 6.940 | UGL |
| 15.0 | 25-may-1989 | 99 | TCLEA | LT | 7.100 2.300 | UGL |
| 15.0 | 25-may-1989 | 99 | TCLEE | LT | 2.300 59.900 | UGL |
| 15.0 | 25-may-1989 | \$ \$06 | TL | LI | 1.000 | UGL |
| 15.0 | 25-may-1989 | 99 | TRCLE | LT | 1.000 | UGL |
| 15.0 | 25-may-1989 | UH09 | TXPHEN | ND | 60.000 | UGL |
| 15.0 | 25-may-1989 | UM13 | TXPHEN | ND | 11.300 | UGL |
| 15.0 | 25-may-1989 | UM13 | UNK536 | | 13.600 | UGL |
| 15.0 | 25-may-1989 | UM13 | UNK538 | | 36.300 | UGL |
| 15.0 | 25-may-1989 | UM13 | UNK541 | | 7.890 | UGL |
| 15.0 | 25-may-1989 | UM13 | UNK542 | | 5.980 | UGL |
| 15.0 | 25-may-1989 | UM13 | UNK543 | | 7.190 | UGL |
| 15.0 | 25-may-1989 | UM13 | UNK543 | | 18.200 | UGL |
| 15.0 | 25-may-1989 | UM13 | UNK544 | | 12.200 | UGL |
| 15.0 | 25-may-1989 | UM13 | UNK599 | | 11.200 | UGL |
| 15.0 | 25-may-1989 | UM13 | UNK619 | | 19.900 | UGL |
| 15.0 | 25-may-1989 | UM13 | UNK620 | | 12.000 | UGL |
| 15.0 | 25-may-1989 | UM13 | UNK620 | | 5.680 | UGL |
| 15.0 | 25-may-1989 | UM13 | UNK620 | | 20.800 | UGL |
| 15.0 | 25-may-1989 | UM13 | UNK621 | | 16.200 | UGL |
| 15.0 | 25-may-1989 | UM13 | UNK621 | | 12.200 | UGL |
| 15.0 | 25-may-1989 | UM13 | UNK623 | | 23.500 | UGL |
| 15.0 | 25-may-1989 | SS06 | ZN | | 40.000 | |
| | | | | | | |

Program ended normally.

INSTALLATION RESTORATION PROGRAM

CHEMICAL REPORT
Thu Dec 7 09:43:56 1989

For Parameters :

Installation = Gaithersburg Research Facility
Beginning Date = 01/01/75
Ending Date = 12/7/89
Media Type = Chemical Surface Water (CSW)
Booleans = Y

IR Installation: Gaithersburg Research FacilityPage 1 Analytical Results for Chemical Surface Water From: 01/01/75 and 12/7/89

Site: STRM GNL-SW-1

| SAMPLE DEPTH (ft) | SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------------|----------------|----------------|----------|------|---------------|------------|
| | 25-may-1989 | 99 | 111TCE | LT | 1.000 | UGL |
| 0.5 | 25-may-1989 | 99 | 112TCE | LT | 1.700 | UGL |
| 0.5 | 25-may-1989 | 99 | 11DCE | LT | 6.800 | UGL |
| 0.5 | 25-may-1989 | 99 | 11DCLE | LT | 2.700 | UGL |
| 0.5 | 25-may-1989 | UM13 | 124TCB | LT | 4.420 | UGL |
| 0.5 0.5 | 25-may-1989 | 99 | 12DCE | LT | 2.200 | UGL |
| 0.5 | 25-may-1989 | UM13 | 12DCLB | LT | 7.320 | UGL |
| 0.5 | 25-may-1989 | 99 | 12DCLE | LT | 1.000 | UGL |
| 0.5 | 25-may-1989 | 99 | 12DCLP | LT | 3.200 | UGL |
| 0.5 | 25-may-1989 | UM13 | 13DCLB | LT | 8.270 | UGL |
| 0.5 | 25-may-1989 | UM13 | 14DCLB | LT | 7.970 | UGL |
| 0.5 | 25-may-1989 | UM13 | 246TCP | ND | 10.000 | UGL |
| 0.5 | 25-may-1989 | UM13 | 24DCLP | ND | 10.000 | UGL |
| 0.5 | 25-may-1989 | UM13 | 24DMPN | ND | 10.000 | UGL |
| 0.5 | 25-may-1989 | UM13 | 24DNP | ND | 50.000 | UGL |
| 0.5 | 25-may-1989 | UM13 | 24DNT | LT | 5.840 | UGL |
| 0.5 | 25-may-1989 | UM13 | 26DNT | LT | 5.520 | UGL |
| 0.5 | 25-may-1989 | 99 | 2CLEVE | LT | 1.600 | UGL |
| 0.5 | 25-may-1989 | UM13 | 2CLP | ND | 10.000 | UGL |
| 0.5 | 25-may-1989 | UM13 | 2CNAP | LT | 2.070 | UGL |
| 0.5 | 25-may-1989 | UM13 | 2NP | ND | 50.000 | UGL |
| 0.5 | 25-may-1989 | UM13 | 33DCBD | ND | 20.000 | UGL |
| 0.5 | 25-may-1989 | UM13 | 46DN2C | ND | 50.000 | UGL |
| 0.5 | 25-may-1989 | UM13 | 4BRPPE | ND | 10.000 | UGL |
| 0.5 | 25-may-1989 | UM13 | 4CL3C | ND | 10.000 | UGL |
| 0.5 | 25-may-1989 | UM13 | 4CLPPE | ND | 10.000 | UGL |
| 0.5 | 25-may-1989 | UM13 | 4NP | ND | 50.000 | UGL |
| 0.5 | 25-may-1989 | UH09 | ABHC | ND | 0.050 | UGL |
| 0.5 | 25-may-1989 | UM13 | ABHC | ND | 3.000 | UGL |
| 0.5 | 25-may-1989 | 99 | ACROLN | ND | 100.000 | UGL |
| 0.5 | 25-may-1989 | 99 | ACRYLO | ND | 100.000 | UGL |
| 0.5 | 25-may-1989 | UH09 | aenslf | ND | 0.050 | UGL |
| 0.5 | 25-may-1989 | UM13 | aenslf | ND | 3.000 | UGL |
| 0.5 | 25-may-1989 | SS06 | AG | LT | 5.450 | UGL |
| 0.5 | 25-may-1989 | UH09 | ALDRN | LT | 0.022 | UGL |
| 0.5 | 25-may-1989 | UM13 | ALDRN | LT | 5.780 | UGL |
| 0.5 | 25-may-1989 | UM13 | anapne | LT | 1.260 | UGL |
| 0.5 | 25-may-1989 | UM13 | ANAPYL | LT | 3.300 | UGL |
| 0.5 | 25-may-1989 | UM13 | ANTHRC | LT | 1.110 | UGL |
| 0.0 | 25-may-1989 | SD11 | AS | LT | 4.190 | UGL |
| 0.5 | 25-may-1989 | UM13 | B2CEXM | ND | 10.000 | UGL |
| 0.5 | 25-may-1989 | UM13 | B2CIPE | ND | 10.000 | UGL UGL |
| 0.5 | 25-may-1989 | UM13 | B2CLEE | LT | 1.500 | UGL |
| 0.5 | 25-may-1989 | UM13 | B2EHP | LT | 32.700 | UGL |
| 0.5 | 25-may-1989 | UM13 | BAANTR | LT | 0.906 | UGL |
| 0.5 | 25-may-1989 | UM13 | BAPYR | L'I | 8.290 | UGL |
| 0.5 | 25-may-1989 | UM13 | BBFANT | LT | 2.650 | UGL |
| 0.5 | 25-may-1989 | UH09 | BBHC | ND | 0.050 | 001 |
| | | | | | | |

IR Installation: Gaithersburg Research FacilityPage 2 Analytical Results for Chemical Surface Water From: 01/01/75 and 12/7/89

Site: STRM GNL-SW-1 (continued)

| SAMPLE DEPTH (ft) | SAMPLE) DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------------|----------------------------|----------------|--------------|----------|------------------|------------|
| 0.5 | 25-may-1989 | UM13 | BBHC | LT | 3.170 | UGL |
| 0.5 | 25-may-1989 | UM13 | BBZP | ND | 10.000 | UGL |
| 0.5 | 25-may-1989 | SS06 | BE | LT | 2.860 | UGL |
| 0.5 | 25-may-1989 | UH09 | BENSLF | ND | 0.100 | UGL |
| 0.5 | 25-may-1989 | UM13 | BENSLF | ND | 6.000 | UGL |
| 0.5 | 25-may-1989 | UM13 | BENZID | ND | 50.000 | UGL |
| 0.5 | 25-may-1989 | UM13 | BGHIPY | LT | 64.600 | UGL |
| 0.5 | 25-may-1989 | UM13 | BKFANT | LŤ | 3.280 | UGL |
| 0.5 | 25-may-1989 | 99 | BRDCLM | ND | 5.000 | UGL |
| 0.5 | 25-may-1989 | UM13 | BZALC | ND | 0.100 | UGL |
| 0.5 | 25-may-1989 | 99 | C13DCP | LT | 1.800 | ugl |
| 0.5 | 25-may-1989 | 99 | C2H3CL | LT | 13.000 | UGL |
| 0.5 | 25-may-1989 | 99 | C2H5CL | LT | 6.900 | UGL |
| 0.5 | 25-may-1989 | 99 | C6H6 | LT | 1.700 | UGL |
| 0.5 | 25-may-1989 | 99 | CCL4 | LT | 1.000 | UGL |
| 0.5 | 25-may-1989 | SS06 | CD | | 6.650 | UGL |
| 0.5 | 25-may-1989 | 99 | CH2CL2 | LT | 23.000 | UGL |
| 0.5 | 25-may-1989 | 99 | CH3BR | ND | 10.000 | UGL |
| 0.5 | 25-may-1989 | 99 | CH3CL | LT | 1.800 | UGL |
| 0.5 | 25-may-1989 | 99 | CHBR3 | LT | 3.700 | UGL |
| 0.5 | 25-may-1989 | 99 | CHCL3 | LT | 1.000 | UGL |
| 0.5 | 25-may-1989 | UM13 | CHRY | LT | 1.150 | UGL |
| 0.5 | 25-may-1989 | UM13 | CL6BZ | LT | 2.850 | UGL |
| 0.5 | 25-may-1989 | UM13 | CL6CP | ND | 10.000 | UGL |
| 0.5 | 25-may-1989 | UM13 | CL6ET | LT | 13.300 | UGL |
| 0.5 | 25-may-1989 | 99 | CLC6H5 | LT | 1.200 | UGL |
| 0.5 | 25-may-1989 | UHO9 | CLDAN | LT | 0.046 | UGL |
| 0.5 | 25-may-1989 | UM13 | CLDAN | LT | 10.200 | UGL |
| 0.5 | 25-may-1989 | SS06 | CR | LT | 4.440 | UGL |
| 0.5 | 25-may-1989 | SS06 | CU | r. 00 | 9.600 | UGL |
| 0.0 | 25-may-1989 | TF19 | CYN | LT | 5.500 | ugl ugl |
| 0.5 | 25-may-1989 | UM13 | DBAHA | LT | 12.300 | UGL |
| 0.5 0.5 | 25-may-1989 | UH09 UM13 | DBHC DBHC | ND LT | 0.050 621.000 | UGL |
| 0.5 | 25-may-1989 25-may-1989 | 99 | DBRCLM | LT | 1.800 | UGL |
| 0.5 | 25-may-1989 | UM13 | DEP | ND | 10.000 | UGL |
| 0.5 | 25-may-1989 | UH09 | DLDRN | LT | 0.005 | UGL |
| 0.5 | 25-may-1989 | UM13 | DLDRN | LT | 2.550 | UGL |
| 0.5 | 25-may-1989 | UM13 | DMP | ND | 10.000 | UGL |
| 0.5 | 25-may-1989 | UM13 | DNBP | ND | 10.000 | ngr |
| 0.5 | 25-may-1989 | UM13 | DNOP | 112 | 43.900 | UGL |
| 0.5 | 25-may-1989 | UHO9 | ENDRN | ND | 0.100 | UGL |
| 0.5 | 25-may-1989 | UM13 | ENDRN | LT | 34.200 | UGL |
| 0.5 | 25-may-1989 | UH09 | ENDRNK | ND | 0.100 | UGL |
| 0.5 | 25-may-1989 | UH09 | ESFS04 | ND | 0.100 | UGL |
| 0.5 | 25-may-1989 | UM13 | ESFS04 | ND | 6.000 | UGL |
| 0.5 | 25-may-1989 | 99 | ETC6H5 | LT | 1.400 | UGL |
| 0.5 | 25-may-1989 | UM13 | FANT | LT | 1.150 | UGL |

IR Installation: Gaithersburg Research FacilityPage 3 Analytical Results for Chemical Surface Water From: 01/01/75 and 12/7/89

(continued) Site: STRM GNL-SW-1

| SAMPLE DEPTH (ft) | SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------------|----------------|----------------|----------|------|---------------|-------|
| 0.5 | 25-may-1989 | UM13 | FLRENE | ND | 10.000 | UGL |
| 0.5 | 25-may-1989 | UM13 | HCBD | LT | 7.890 | UGL |
| 0.5 | 25-may-1989 | 99 | HG | | 0.100 | UGL |
| 0.5 | 25-may-1989 | UH09 | HPCL | | 0.087 | UGL |
| 0.5 | 25-may-1989 | UM13 | HPCL | LT | 4.910 | UGL |
| 0.5 | 25-may-1989 | UHO9 | HPCLE | LT | 0.086 | UGL |
| 0.5 | 25-may-1989 | UM13 | HPCLE | LT | 6.440 | UGL |
| 0.5 | 25-may-1989 | UM13 | ICDPYR | LT | 128.000 | UGL |
| 0.5 | 25-may-1989 | UH09 | ISODR | LT | 0.041 | UGL |
| 0.5 | 25-may-1989 | UM13 | ISOPHR | ND | 0.100 | UGL |
| 0.5 | 25-may-1989 | UH09 | LIN | LT | 0.029 | UGL |
| 0.5 | 25-may-1989 | UM13 | LIN | LT | 26.000 | UGL |
| 0.5 | 25-may-1989 | 99 | MEC6H5 | LT | 1.800 | UGL |
| 0.5 | 25-may-1989 | UH09 | MEXCLR | ND | 0.500 | UGL |
| 0.5 | 25-may-1989 | UM13 | NAP | LT | 3.510 | UGL |
| 0.5 | 25-may-1989 | UM13 | NB | ND | 10.000 | UGL |
| 0.5 | 25-may-1989 | SS06 | NI | LT | 15.300 | UGL |
| 0.5 | 25-may-1989 | UM13 | NNDMEA | ND | 10.000 | UGL |
| 0.5 | 25-may-1989 | UM13 | NNDNPA | LT | 5.630 | UGL |
| 0.5 | 25-may-1989 | UM13 | NNDPA | ND | 6.700 | UGL |
| 0.5 | 25-may-1989 | SD11 | PB | LT | 1.700 | UGL |
| 0.5 | 25-may-1989 | UH09 | PCB016 | LT | 0.133 | UGL |
| 0.5 | 25-may-1989 | UM13 | PCB016 | ND | 30.000 | UGL |
| 0.5 | 25-may-1989 | UH09 | PCB221 | ND | 0.500 | UGL |
| 0.5 | 25-may-1989 | UM13 | PCB221 | ND | 30.000 | UGL |
| 0.5 | 25-may-1989 | UHO9 | PCB232 | ND | 0.500 | UGL |
| 0.5 | 25-may-1989 | UM13 | PCB232 | ND | 30.000 | UGL |
| 0.5 | 25-may-1989 | UH09 | PCB242 | ND | 0.500 | UGL |
| 0.5 | 25-may-1989 | UM13 | PCB242 | ND | 30.000 | UGL |
| 0.5 | 25-may-1989 | UH09 | PCB248 | ND | 0.500 | UGL |
| 0.5 | 25-may-1989 | UM13 | PCB248 | ND | 30.000 | UGL |
| 0.5 | 25-may-1989 | UH09 | PCB254 | ND | 1.000 | UGL |
| 0.5 | 25-may-1989 | UM13 | PCB254 | ND | 60.000 | UGL |
| 0.5 | 25-may-1989 | UH09 | PCB260 | LT | 0.087 | UGL |
| 0.5 | 25-may-1989 | UM13 | PCB260 | ND | 60.000 | UGL |
| 0.5 | 25-may-1989 | UM13 | PCP | ND | 50.000 | UGL |
| 0.5 | 25-may-1989 | UM13 | PHANTR | LT | 0.759 | UGL |
| 0.5 | 25-may-1989 | UHO9 | PPDDD | LT | 0.013 | UGL |
| 0.5 | 25-may-1989 | UM13 | PPDDD | LT | 5.610 | UGL |
| 0.5 | 25-may-1989 | UH09 | PPDDE | LT | 0.022 | UGL |
| 0.5 | 25-may-1989 | UM13 | PPDDE | LT | 11.200 | UGL |
| 0.5 | 25-may-1989 | UHO9 | PPDDT | LT | 0.037 | UGL |
| 0.5 | 25-may-1989 | UM13 | PPDDT | LT | 5.070 | UGL |
| 0.5 | 25-may-1989 | UM13 | PYR | LT | 9.380 | UGL |
| 0.0 | 25-may-1989 | SD11 | SB | LT | 2.500 | UGL |
| 0.0 | 25-may-1989 | SD11 | SE | LT | 6.940 | UGL |
| 0.5 | 25-may-1989 | 99 | TCLEA | LT | 7.100 | UGL |
| 0.5 | 25-may-1989 | 99 | TCLEE | LT | 2.300 | UGL |

IR Installation: Gaithersburg Research FacilityPage 4 Analytical Results for Chemical Surface Water From: 01/01/75 and 12/7/89

Site: STRM GNL-SW-1 (continued)

| SAMPLE SAME DEPTH (ft) DAY | | OD COMPOUND | BOOL | CONCENTRATION | UNITS |
|-------------------------------|--|---|----------------------|---|--|
| 0.5 25-may 0.5 25-may | 7-1989 UM13 7-1989 UM13 | TRCLE TXPHEN TXPHEN UNK536 UNK538 UNK540 UNK541 UNK542 UNK543 UNK543 UNK543 UNK543 UNK544 UNK619 UNK620 UNK620 UNK620 | LT LT ND ND | 59.900 1.000 1.000 60.000 12.300 15.300 4.050 39.600 7.300 8.140 6.650 20.100 24.600 45.700 20.200 45.500 29.400 32.100 9.980 10.200 18.600 14.500 | UGL UGL UGL UGL UGL UGL UGL UGL UGL UGL |

Program ended normally.

INSTALLATION RESTORATION PROGRAM

CHEMICAL REPORT
Thu Dec 7 09:45:32 1989

For Parameters :

Installation = Gaithersburg Research Facility
Beginning Date = 01/01/75
Ending Date = 12/7/89
Media Type = Chemical Sediment (CSE)
Booleans = Y

IR Installation: Gaithersburg Research FacilityPage 1 Analytical Results for Chemical Sediment From: 01/01/75 and 12/7/89

Site: STRM GNL-SS-1

| SAMPLE DEPTH (ft) | SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------------|----------------------------|----------------|----------|-----------|-----------------|------------|
| | | | 111TCE | LT | 0.008 | UGG |
| 0.5 | 02-jun-1989 | 99 | 112TCE | LT | 0.004 | UGG |
| 0.5 | 02-jun-1989 | 99 | 11DCE | LT | 0.016 | UGG |
| 0.5 | 02-jun-1989 | 99 | 11DCLE | LT | 0.010 | UGG |
| 0.5 | 02-jun-1989 | 99 | 12DCE | LT | 0.008 | UGG |
| 0.5 | 02-jun-1989 | 99 99 | 12DCLE | LT | 0.006 | UGG |
| 0.5 | 02-jun-1989 | 99 | 12DCLP | LT | 0.013 | UGG |
| 0.5 | 02-jun-1989 | 99 | 2CLEVE | LT | 0.007 | UGG |
| 0.5 | 02-jun-1989 | LH08 | ABHC | ND | 0.008 | UGG |
| 0.5 | 02-jun-1989 | 99 | ACROLN | ND | 0.130 | UGG |
| 0.5 | 02-jun-1989 | 99 | ACRYLO | ND | 0.130 | UGG |
| 0.5 | 02-jun-1989 | TH08 | AENSLF | ND | 0.008 | UGG |
| 0.5 | 02-jun-1989 | JS05 | AG | LT | 0.783 | UGG |
| 0.0 | 02-jun-1989 | TH08 | ALDRN | LT | 0.013 | UGG |
| 0.5 | 02-jun-1989 | JD11 | AS | LT | 1.980 | UGG |
| 0.0 | 02-jun-1989 | TH08 | BBHC | ND | 0.008 | UGG |
| 0.5 | 02-jun-1989 02-jun-1989 | JS05 | BE | | 0.487 | UGG |
| 0.0 | 02-jun-1989 | LH08 | BENSLF | ND | 0.016 | UGG |
| 0.5 | 02-jun-1989 | 99 | BRDCLM | ND | 6.520 | , UGG |
| 0.5 | 02-jun-1989 | 99 | C13DCP | LT | 0.004 | UGG |
| 0.5 | 02-jun-1989 | 99 | C2H3CL | LT | 0.010 | UGG |
| 0.5 | 02-jun-1989 | 99 | C2H5CL | LT | 0.013 | UGG |
| 0.5 0.5 | 02-jun-1989 | 99 | C6H6 | LT | 0.006 | UGG UGG |
| 0.5 | 02-jun-1989 | 99 | CCL4 | LT | 0.003 | UGG |
| 0.0 | 02-jun-1989 | JS05 | CD | LT | 1.090 | UGG |
| 0.5 | 02-jun-1989 | 99 | CH2CL2 | ND | 0.007 | UGG |
| 0.5 | 02-jun-1989 | 99 | CH3BR | ND | 0.013 | UGG |
| 0.5 | 02-jun-1989 | 99 | CH3CL | ĽΪ | 0.006 | UGG |
| 0.5 | 02-jun-1989 | 99 | CHBR3 | LT | 0.005 | UGG |
| 0.5 | 02-jun-1989 | 99 | CHCL3 | LT | 0.020 0.003 | UGG |
| 0.5 | 02-jun-1989 | 99 | CLC6H5 | LT | | UGG |
| 0.5 | 02-jun-1989 | LH08 | CLDAN | LT | 0.032 10.900 | UGG |
| 0.0 | 02-jun-1989 | JS05 | CR | | 10.200 | UGG |
| 0.0 | 02-jun-1989 | JS05 | CU | - m | 22.300 | UGG |
| 0.0 | 02-jun-1989 | KF12 | CYN | LI | 0.008 | UGG |
| 0.5 | 02-jun-1989 | LH08 | DBHC | ND | 0.003 | UGG |
| 0.5 | 02-jun-1989 | 99 | DBRCLM | LT | 0.008 | UGG |
| 0.5 | 02-jun-1989 | LH08 | DLDRN | LT | 0.016 | UGG |
| 0.5 | 02-jun-1989 | LH08 | ENDRN | ND | 0.016 | UGG |
| 0.5 | 02-jun-1989 | TH08 | ENDRNK | ND | 0.016 | UGG |
| 0.5 | 02-jun-1989 | LH08 | ESFS04 | ND LT | 0.013 | UGG |
| 0.5 | 02-jun-1989 | 99 | ETC6H5 | LT | 0.018 | UGG |
| 0.0 | 02-jun-1989 | 99 | HG | LT | 0.014 | UGG |
| 0.5 | 02-jun-1989 | LH08 | HPCL | LT | 0.094 | UGG |
| 0.5 | 02-jun-1989 | LH08 | HPCLE | LT | 0.140 | UGG |
| 0.5 | 02-jun-1989 | LH08 | ISODR | LT | 0.041 | UGG |
| 0.5 | 02-jun-1989 | LH08 | LIN | LT | 0.008 | UGG |
| 0.5 | 02-jun-1989 | 99 | MEC6H5 | "1 | 3.55 | |

Dec 7, 1989

IR Installation: Gaithersburg Research FacilityPage 2 Analytical Results for Chemical Sediment From: 01/01/75 and 12/7/89

Site: STRM GNL-SS-1 (continued)

| SAMPLE DEPTH (f | SAMPLE t) DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|--------------------|-------------------|----------------|----------|------|---------------|-------|
| | | | | | | |
| 0.5 | 02-jun-1989 | LH08 | MEXCLR | ND | 0.080 | UGG |
| 0.0 | 02-jun-1989 | JS05 | NI | | 9.140 | UGG |
| 0.0 | 02-jun-1989 | JS05 | PB | LT | 96.100 | UGG |
| 0.5 | 02-jun-1989 | LH08 | PCB016 | LT | 0.092 | UGG |
| 0.5 | 02-jun-1989 | LH08 | PCB221 | ND | 0.080 | UGG |
| 0.5 | 02-jun-1989 | LH08 | PCB232 | ND | 0.080 | UGG |
| 0.5 | 02-jun-1989 | LH08 | PCB242 | ND | 0.080 | UGG |
| 0.5 | 02-jun-1989 | LH08 | PCB248 | ND | 0.080 | UGG |
| 0.5 | 02-jun-1989 | LH08 | PCB254 | ND | 0.160 | UGG |
| 0.5 | 02-jun-1989 | LH08 | PCB260 | LT | 0.065 | UGG |
| 0.5 | 02-jun-1989 | LH08 | PPDDD | LT | 0.020 | UGG |
| 0.5 | 02-jun-1989 | LH08 | PPDDE | LT | 0.016 | UGG |
| 0.5 | 02-jun-1989 | LH08 | PPDDT | LT | 0.018 | UGG |
| 0.0 | 02-jun-1989 | JS05 | SB | ND | 11.000 | UGG |
| 0.0 | 02-jun-1989 | JD11 | SB | LT | 0.513 | UGG |
| 0.0 | 02-jun-1989 | JS05 | SE | LT | 103.000 | UGG |
| 0.0 | 02-jun-1989 | JD11 | SE | LT | 1.880 | UGG |
| 0.5 | 02-jun-1989 | 99 | TCLEA | LT | 0.004 | UGG |
| 0.5 | 02-jun-1989 | 99 | TCLEE | LT | 0.010 | UGG |
| 0.0 | 02-jun-1989 | JS05 | TL | LT | 67.600 | UGG |
| 0.0 | 02-jun-1989 | JD11 | TL | LT | 2.150 | UGG |
| 0.5 | 02-jun-1989 | 99 | TRCLE | LT | 0.003 | UGG |
| 0.5 | 02-jun-1989 | LH08 | TXPHEN | ND | 0.160 | UGG |
| 0.0 | 02-jun-1989 | JS05 | ZN | | 27.900 | UGG |

Program ended normally.

INSTALLATION RESTORATION PROGRAM

CHEMICAL REPORT
Thu Dec 7 09:46:39 1989

For Parameters :

Installation = Gaithersburg Research Facility
Beginning Date = 01/01/75
Ending Date = 12/7/89
Media Type = Chemical Soil (CSO)
Booleans = Y

IR Installation: Gaithersburg Research FacilityPage 1 Analytical Results for Chemical Soil From: 01/01/75 and 12/7/89

Site: BORE GNC-SS-8

| SAMPLE DEPTH (ft | SAMPLE) DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|---------------------|------------------|----------------|----------|------|---------------|-------|
| 914.0 | 17-apr-1989 | 99 | 111TCE | LT | 0.007 | UGG |
| 914.0 | 17-apr-1989 | 99 | 112TCE | LT | 0.003 | UGG |
| 914.0 | 17-apr-1989 | 99 | 11DCE | LT | 0.015 | UGG |
| 914.0 | 17-apr-1989 | 99 | 11DCLE | LT | 0.009 | UGG |
| 0.0 | 17-apr-1989 | 99 | 124TCB | LT | 0.207 | UGG |
| 914.0 | 17-apr-1989 | 99 | 12DCE | LT | 0.007 | UGG |
| 0.0 | 17-apr-1989 | 99 | 12DCLB | LT | 0.402 | UGG |
| 914.0 | 17-apr-1989 | 99 | 12DCLE | LT | 0.006 | UGG |
| 914.0 | 17-apr-1989 | 99 | 12DCLP | LT | 0.012 | UGG |
| 0.0 | 17-apr-1989 | 99 | 13DCLB | LT | 0.365 | UGG |
| 0.0 | 17-apr-1989 | 99 | 14DCLB | LT | 0.353 | UGG |
| 0.0 | 17-apr-1989 | 99 | 246TCP | ND | 0.402 | UGG |
| 0.0 | 17-apr-1989 | 99 | 24DCLP | ND | 0.402 | UGG |
| 0.0 | 17-apr-1989 | 99 | 24DMPN | ND | 0.402 | UGG |
| 0.0 | 17-apr-1989 | 99 | 24DNP | ND | 2.440 | UGG |
| 0.0 | 17-apr-1989 | 99 | 24DNT | LT | 0.560 | UGG |
| 0.0 | 17-apr-1989 | 99 | 26DNT | LT | 0.244 | UGG |
| 914.0 | 17-apr-1989 | 99 | 2CLEVE | LT | 0.006 | UGG |
| 0.0 | 17-apr-1989 | 99 | 2CLP | ND | 0.402 | UGG |
| 0.0 | 17-apr-1989 | 99 | 2CNAP | LT | 0.390 | UGG |
| 0.0 | 17-apr-1989 | 99 | 2NP | ND | 0.402 | UGG |
| 0.0 | 17-apr-1989 | 99 | 33DCBD | ND | 0.853 | UGG |
| 0.0 | 17-apr-1989 | 99 | 46DN2C | ND | 2.440 | UGG |
| 0.0 | 17-apr-1989 | 99 | 4BRPPE | ND | 0.402 | UGG |
| 0.0 | 17-apr-1989 | 99 | 4CL3C | ND | 0.353 | UGG |
| 0.0 | 17-apr-1989 | 99 | 4CLPPE | ND | 0.402 | UGG |
| 0.0 | 17-apr-1989 | 99 | 4NP | ND | 2.440 | UGG |
| 0.0 | 17-apr-1989 | 99 | ABHC | ND | 0.609 | UGG |
| 914.0 | 17-apr-1989 | 99 | ABHC | ND | 0.008 | UGG |
| 914.0 | 17-apr-1989 | 99 | ACROLN | ND | 0.122 | UGG |
| 914.0 | 17-apr-1989 | 99 | ACRYLO | ND | 0.122 | UGG |
| 0.0 | 17-apr-1989 | 99 | AENSLF | ND | 0.609 | UGG |
| 914.0 | 17-apr-1989 | 99 | AENSLF | ND | 0.008 | UGG |
| 914.0 | 17-apr-1989 | JS05 | AG | LT | 0.953 | UGG |
| 0.0 | 17-apr-1989 | 99 | ALDRN | LT | 0.512 | UGG |
| 914.0 | 17-apr-1989 | 99 | ALDRN | LT | 0.011 | UGG |
| 0.0 | 17-apr-1989 | 99 | ANAPNE | LT | 0.414 | UGG |
| 0.0 | 17-apr-1989 | 99 | ANAPYL | LT | 0.378 | UGG |
| 0.0 | 17-apr-1989 | 99 | ANTRC | LT | 0.353 | UGG |
| 914.0 | 17-apr-1989 | JD11 | AS | LT | 2.410 | UGG |
| 0.0 | 17-apr-1989 | 99 | B2CEXM | ND | 0.402 | UGG |
| 0.0 | 17-apr-1989 | 99 | B2CIPE | ND | 0.402 | UGG |
| 0.0 | 17-apr-1989 | 99 | B2CLEE | LT | 0.463 | UGG |
| 0.0 | 17-apr-1989 | 99 | B2EHP | | 6.820 | UGG |
| 0.0 | 17-apr-1989 | 99 | BAANTR | LT | 0.329 | UGG |
| 0.0 | 17-apr-1989 | 99 | BAPYR | LT | 0.195 | UGG |
| 0.0 | 17-apr-1989 | 99 | BBFANT | LT | 0.304 | UGG |
| 0.0 | 17-apr-1989 | 99 | BBHC | LT | 0.402 | UGG |

IR Installation: Gaithersburg Research FacilityPage 2 Analytical Results for Chemical Soil From: 01/01/75 and 12/7/89

Site: BORE GNC-SS-8 (continued)

| SAMPLE | SAMPLE | TEST | | | | |
|----------------------|----------------------------|------------|------------------|----------|--------------------|-------------|
| DEPTH (ft) | DATE | METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
| | | | | | | |
| 914.0 | 17-apr-1989 | 99 | BBHC | ND | 0.008 | UGG |
| 0.0 | 17-apr-1989 | 99 7505 | BBZP BE | ND | 0.402 | UGG |
| 914.0 | 17-apr-1989 | JS05 | | NTO | 1.600 | UGG |
| 0.0 | 17-apr-1989 | 99 | BENSLF | ND | 1.220 | UGG |
| 914.0 | 17-apr-1989 | 99 99 | BENSLF BENZID | ND ND | 0.016 | UGG |
| 0.0 | 17-apr-1989 | 99 | BGHIPY | LT | 1.950 | UGG |
| 0.0 | 17-apr-1989 | 99 | BKFANT | LT | 0.633 0.268 | UGG UGG |
| 0.0 914 .0 | 17-apr-1989 17-apr-1989 | 99 | BRDCLM | ND | 6.090 | UGG |
| 0.0 | 17-apr-1989 | 99 | BZALC | ND | 0.402 | UGG |
| 914.0 | 17-apr-1989 | 99 | C13DCP | LT | 0.003 | UGG |
| 914.0 | 17-apr-1989 | 99 | C2H3CL | LT | 0.009 | UGG |
| 914.0 | 17-apr-1989 | 99 | C2H5CL | LT | 0.012 | UGG |
| 914.0 | 17-apr-1989 | 99 | C6H6 | LT | 0.006 | UGG |
| 914.0 | 17-apr-1989 | 99 | CCL4 | LT | 0.002 | UGG |
| 914.0 | 17-apr-1989 | JS05 | CD | LT | 1.330 | UGG |
| 914.0 | 17-apr-1989 | 99 | CH2CL2 | ND | 0.012 | UGG |
| 914.0 | 17-apr-1989 | 99 | CH3BR | ND | 0.012 | UGG |
| 914.0 | 17-apr-1989 | 99 | CH3CL | LT | 0.005 | UGG |
| 914.0 | 17-apr-1989 | 99 | CHBR3 | LT | 0.005 | UGG |
| 914.0 | 17-apr-1989 | 99 | CHCL3 | LT | 0.018 | UGG |
| 0.0 | 17-apr-1989 | 99 | CHRY | LT | 0.231 | UGG |
| 0.0 | 17-apr-1989 | 99 | CL6BZ | LT | 0.426 | UGG |
| 0.0 | 17-apr-1989 | 99 | CL6CP | ND | 0. 4 02 | UGG |
| 0.0 | 17-apr-1989 | 99 | CL6ET | LT | 0.171 | UGG |
| 914.0 | 17-apr-1989 | 99 | CLC6H5 | LT | 0.002 | UGG |
| 0.0 | 17-apr-1989 | 99 | CLDAN | LT | 0.987 | UGG |
| 914.0 | 17-apr-1989 | 99 | CLDAN | LT | 0.028 | UGG |
| 914.0 | 17-apr-1989 | JS05 | CR | | 24.200 | UGG |
| 914.0 | 17-apr-1989 | JS05 | CU | | 29.500 | UGG |
| 914.0 | 17-apr-1989 | KF12 | CYN | LT | 22.300 | UGG |
| 0.0 | 17-apr-1989 | 99 | DBAHA | LT | 0.694 | ÿ GG |
| 0.0 | 17-apr-1989 | 99 | DBHC | LT | 0.694 | UGG |
| 914.0 | 17-apr-1989 | 99 | DBHC | ND | 0.008 | UGG |
| 914.0 | 17-apr-1989 | 99 | DBRCLM | LT | 0.003 | UGG |
| 0.0 | 17-apr-1989 | 99 | DEP | ND | 0.402 | UGG |
| 0.0 | 17-apr-1989 | 99 | DLDRN | LT | 1.050 | UGG UGG |
| 914.0 | 17-apr-1989 | 99 | DLDRN | LT | 0.006 | UGG |
| 0.0 0.0 | 17-apr-1989 | 99 99 | DMP | ND ND | 0.402 0.402 | UGG |
| 0.0 | 17-apr-1989 17-apr-1989 | 99 | DNBP DNOP | LT | 0.426 | UGG |
| 0.0 | 17-apr-1989 | | | LT | 0.463 | UGG |
| 914.0 | 17-apr-1989 | 99 99 | ENDRN ENDRN | ND | 0.016 | UGG |
| 914.0 | 17-apr-1989 | 99 | | ND | 0.016 | UGG |
| 0.0 | 17-apr-1989 | 99 | ENDRNK ESFS04 | ND | 1.220 | UGG |
| 914.0 | 17-apr-1989 | 99 | ESFSO4 | ND | 0.016 | UGG |
| 914.0 | 17-apr-1989 | 99 | ETC6H5 | LT | 0.012 | UGG |
| 0.0 | 17-apr-1989 | 99 | FANT | LT | 0.256 | ÜGG |
| | upi 2505 | | - 43414 | | | |

IR Installation: Gaithersburg Research FacilityPage 3 Analytical Results for Chemical Soil From: 01/01/75 and 12/7/89

Site: BORE GNC-SS-8 (continued)

| SAMPLE DEPTH (ft) | SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------------|----------------------------|----------------|----------|------|---------------|------------|
| | | | FLRENE | ND | 0.402 | UGG |
| 0.0 | 17-apr-1989 | 99 | HCBD | LT | 0.353 | UGG |
| 0.0 | 17-apr-1989 | 99 | HG HG | LT | 0.018 | UGG |
| 1.0 | 17-apr-1989 | JB09 | HPCL | LT | 0.329 | UGG |
| 0.0 | 17-apr-1989 | 99 | HPCL | LT | 0.013 | UGG |
| 914.0 | 17-apr-1989 | 99 | HPCLE | LT | 0.901 | UGG |
| 0.0 | 17-apr-1989 | 99 99 | HPCLE | LT | 0.094 | UGG |
| 914.0 | 17-apr-1989 | 99 | ICDPYR | LT | 0.548 | UGG |
| 0.0 | 17-apr-1989 | 99 | ISODR | LT | 0.120 | UGG |
| 914.0 | 17-apr-1989 | 99 | ISOPHR | ND | 0.402 | UGG |
| 0.0 | 17-apr-1989 | 99 | LIN | LT | 0.365 | UGG |
| 0.0 | 17-apr-1989 | 99 | LIN | LT | 0.044 | UGG |
| 914.0 | 17-apr-1989 | 99 | MEC6H5 | LT | 0.008 | UGG |
| 914.0 | 17-apr-1989 17-apr-1989 | 99 | MEXCLR | ND | 0.080 | UGG |
| 914.0 | 17-apr-1989 | 99 | NAP | LT | 0.341 | UGG |
| 0.0 | 17-apr-1989 | 99 | NB | ND | 0.402 | UGG |
| 0.0 914.0 | 17-apr-1989 | JS05 | NI | | 29.400 | บGG |
| 0.0 | 17-apr-1989 | 99 | NNDMEA | ND | 0.402 | UGG |
| 0.0 | 17-apr-1989 | 99 | NNDNPA | LT | 0.134 | UGG |
| 0.0 | 17-apr-1989 | 99 | NNDPA | ND | 0.402 | UGG |
| 914.0 | 17-apr-1989 | JS05 | PB | LT | 117.000 | UGG |
| 0.0 | 17-apr-1989 | 99 | PCB016 | ND | 6.090 | UGG |
| 914.0 | 17-apr-1989 | LH08 | PCB016 | LT | 0.092 | UGG |
| 0.0 | 17-apr-1989 | 99 | PCB221 | ND | 6.090 | UGG |
| 914.0 | 17-apr-1989 | LH08 | PCB221 | ND | 0.080 | UGG |
| 0.0 | 17-apr-1989 | 99 | PCB232 | ND | 6.090 | UGG |
| 914.0 | 17-apr-1989 | LH08 | PCB232 | ND | 0.080 | UGG |
| 0.0 | 17-apr-1989 | 99 | PCB242 | ND | 6.090 | UGG |
| 914.0 | 17-apr-1989 | LH08 | PCB242 | ND | 0.080 | UGG |
| 0.0 | 17-apr-1989 | 99 | PCB248 | ND | 6.090 | UGG |
| 914.0 | 17-apr-1989 | LH08 | PCB248 | ND | 0.080 | UGG |
| 0.0 | 17-apr-1989 | 99 | PCB254 | ND | 12.200 | UGG |
| 914.0 | 17-apr-1989 | LH08 | PCB254 | ND | 0.160 | UGG |
| 0.0 | 17-apr-1989 | 99 | PCB260 | ND | 12.200 | UGG |
| 914.0 | 17-apr-1989 | LH08 | PCB260 | LT | 0.065 | UGG |
| 0.0 | 17-apr-1989 | 99 | PCP | ND | 2.440 | UGG |
| 0.0 | 17-apr-1989 | 99 | PHANTR | LT | 1.950 | UGG |
| 0.0 | 17-apr-1989 | 99 | PPDDD | LT | 0.475 | UGG |
| 914.0 | 17-apr-1989 | 99 | PPDDD | LT | 0.017 | UGG |
| 0.0 | 17-apr-1989 | 99 | PPDDE | LT | 0.487 | UGG |
| 914.0 | 17-apr-1989 | 99 | PPDDE | LT | 0.014 | UGG |
| 0.0 | 17-apr-1989 | 99 | PPDDT | LT | 0.585 | UGG |
| 914.0 | 17-apr-1989 | 99 | PPDDT | LT | 0.017 | UGG UGG |
| 0.0 | 17-apr-1989 | 99 | PYR | LT | 0.646 | |
| 914.0 | 17-apr-1989 | JD11 | SB | | 1.170 | UGG |
| 914.0 | 17-apr-1989 | JD11 | SE | LT | 2.280 | UGG UGG |
| 914.0 | 17-apr-1989 | 99 | TCLEA | LT | 0.003 | UGG |
| 914.0 | 17-apr-1989 | 99 | TCLEE | LT | 0.010 | UGG |

Dec 7, 1989

IR Installation: Gaithersburg Research FacilityPage 4 Analytical Results for Chemical Soil From: 01/01/75 and 12/7/89

Site: BORE GNC-SS-8 (continued)

| SAMPLE DEPTH (ft) | SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------------|----------------|----------------|----------|------|---------------|-------|
| 014 0 | 171000 | JD11 | TL | LT | 2 620 | * |
| 914.0 | 17-apr-1989 | | | _ | 2.620 | UGG |
| 914.0 | 17-apr-1989 | 99 | TRCLE | LT | 0.002 | UGG |
| 0.0 | 17-apr-1989 | 99 | TXPHEN | ND | 12.200 | UGG |
| | 17-apr-1989 | 99 | TXPHEN | ND | 0.160 | UGG |
| 0.0 | 17-apr-1989 | 99 | UNK519 | | 0.459 | UGG |
| | 17-apr-1989 | 99 | UNK523 | | 1.500 | UGG |
| 0.0 | 17-apr-1989 | 99 | UNK524 | | 0.441 | UGG |
| 0.0 | 17-apr-1989 | 99 | UNK524 | | 0.496 | UGG |
| 0.0 | 17-apr-1989 | 99 | UNK525 | | 0.421 | UGG |
| 0.0 | 17-apr-1989 | 99 | UNK528 | | 6.570 | UGG |
| 0.0 | 17-apr-1989 | 99 | UNK530 | | 0.692 | UGG |
| 0.0 | 17-apr-1989 | 99 | UNK531 | | 0.552 | UGG |
| 0.0 | 17-apr-1989 | 99 | UNK535 | | 0.565 | UGG |
| | 17-apr-1989 | 99 | UNK538 | | 0.603 | UGG |
| 0.0 | 17-apr-1989 | 99 | UNK538 | | 0.803 | UGG |
| | 17-apr-1989 | 99 | UNK539 | | 0.963 | UGG |
| | 17-apr-1989 | 99 | UNK545 | | 1.620 | UGG |
| 0.0 | 17-apr-1989 | 99 | UNK591 | | 0.432 | UGG |
| 0.0 | 17-apr-1989 | 99 | UNK601 | | 0.481 | UGG |
| | 17-apr-1989 | 99 | UNK609 | | 0.382 | UGG |
| 0.0 | 17-apr-1989 | 99 | UNK619 | | 1.470 | UGG |
| | 17-apr-1989 | 99 | UNK628 | | 0.865 | UGG |
| 0.0 | 17-apr-1989 | 99 | UNK629 | | 18.600 | UGG |
| 914.0 | 17-apr-1989 | JS05 | ZN | | 151.000 | UGG |

Site: BORE GNL-SS-2

| SAMPLE | SAMPLE | TEST | | | | |
|----------|-------------|--------|----------|------|---------------|-------|
| DEPTH (f | t) DATE | METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
| | | | | | | |
| 3.0 | 02-jun-1989 | 99 | 111TCE | LT | 0.007 | UGG |
| 3.0 | 02-jun-1989 | 99 | 112TCE | LT | 0.003 | UGG |
| 3.0 | 02-jun-1989 | 99 | 11DCE | LT | 0.014 | UGG |
| 3.0 | 02-jun-1989 | 99 | 11DCLE | LT | 0.009 | UGG |
| 3.0 | 02-jun-1989 | 99 | 12DCE | LT | 0.007 | UGG |
| 3.0 | 02-jun-1989 | 99 | 12DCLE | LT | 0.006 | UGG |
| 3.0 | 02-jun-1989 | 99 | 12DCLP | LT | 0.012 | UGG |
| 3.0 | 02-jun-1989 | 99 | 2CLEVE | LT | 0.006 | UGG |
| 3.0 | 02-jun-1989 | LH08 | ABHC | ND | 0.008 | UGG |
| 3.0 | 02-jun-1989 | 99 | ACROLN | ND | 0.121 | UGG |
| 3.0 | 02-jun-1989 | 99 | ACRYLO | ND | 0.121 | UGG |
| 3.0 | 02-jun-1989 | LH08 | AENSLF | ND | 0.008 | UGG |
| 0.0 | 02-jun-1989 | JS05 | AG | LT | 0.783 | UGG |
| 3.0 | 02-jun-1989 | LH08 | ALDRN | LT | 0.013 | UGG |
| 0.0 | 02-jun-1989 | JD11 | AS | LT | 1.980 | UGG |
| 3.0 | 02-jun-1989 | LH08 | BBHC | ND | 0.008 | UGG |
| 0.0 | 02-jun-1989 | JS05 | BE | | 0.792 | UGG |

IR Installation: Gaithersburg Research FacilityPage 5 Analytical Results for Chemical Soil From: 01/01/75 and 12/7/89

Site: BORE GNL-SS-2 (continued)

| SAMPLE DEPTH (ft) | SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------------|----------------|----------------|----------|------|---------------|-------|
| 3.0 | 02-jun-1989 | LH08 | BENSLF | ND | 0.016 | UGG |
| 3.0 | 02-jun-1989 | 99 | BRDCLM | ND | 6.050 | UGG |
| 3.0 | 02-jun-1989 | 99 | C13DCP | LT | 0.003 | UGG |
| 3.0 | 02-jun-1989 | 99 | C2H3CL | LT | 0.009 | UGG |
| 3.0 | 02-jun-1989 | 99 | C2H5CL | LT | 0.012 | UGG |
| 3.0 | 02-jun-1989 | 99 | C6H6 | LT | 0.006 | UGG |
| 3.0 | 02-jun-1989 | 99 | CCL4 | LT | 0.002 | UGG |
| 0.0 | 02-jun-1989 | JS05 | CD | LT | 1.090 | UGG |
| 3.0 | 02-jun-1989 | 99 | CH2CL2 | ND | 0.006 | UGG |
| 3.0 | 02-jun-1989 | 99 | CH3BR | ND | 0.012 | UGG |
| 3.0 | 02-jun-1989 | 99 | CH3CL | LT | 0.005 | UGG |
| 3.0 | 02-jun-1989 | 99 | CHBR3 | LT | 0.005 | UGG |
| 3.0 | 02-jun-1989 | 99 | CHCL3 | LT | 0.018 | UGG |
| 3.0 | 02-jun-1989 | 99 | CLC6H5 | LT | 0.002 | UGG |
| 3.0 | 02-jun-1989 | LH08 | CLDAN | LT | 0.032 | UGG |
| 0.0 | 02-jun-1989 | JS05 | CR | | 12.900 | UGG |
| 0.0 | 02-jun-1989 | JS05 | CU | | 32.000 | UGG |
| 0.0 | 02-jun-1989 | KF12 | CYN | LT | 22.300 | UGG |
| 3.0 | 02-jun-1989 | LH08 | DBHC | ND | 0.008 | UGG |
| 3.0 | 02-jun-1989 | 99 | DBRCLM | LT | 0.003 | UGG |
| 3.0 | 02-jun-1989 | LH08 | DLDRN | LT | 0.008 | UGG |
| 3.0 | 02-jun-1989 | LH08 | ENDRN | ND | 0.016 | UGG |
| 3.0 | 02-jun-1989 | LH08 | ENDRNK | ND | 0.016 | UGG |
| 3.0 | 02-jun-1989 | LH08 | ESFS04 | ND | 0.016 | UGG |
| 3.0 | 02-jun-1989 | 99 | ETC6H5 | LT | 0.012 | UGG |
| 0.0 | 02-jun-1989 | 99 | HG | | 0.027 | UGG |
| 3.0 | 02-jun-1989 | LH08 | HPCL | LT | 0.014 | UGG |
| 3.0 | 02-jun-1989 | LH08 | HPCLE | LT | 0.094 | UGG |
| 3.0 | 02-jun-1989 | LH08 | ISODR | LT | 0.140 | UGG |
| 3.0 | 02-jun-1989 | LH08 | LIN | LT | 0.041 | UGG |
| 3.0 | 02-jun-1989 | 99 | MEC6H5 | LT | 0.007 | UGG |
| 3.0 | 02-jun-1989 | LH08 | MEXCLR | ND | 0.080 | UGG |
| 0.0 | 02-jun-1989 | JS05 | NI | | 8.590 | UGG |
| 0.0 | 02-jun-1989 | JS05 | PB | LT | 96.100 | UGG |
| 3.0 | 02-jun-1989 | LH08 | PCB016 | LT | 0.092 | UGG |
| 3.0 | 02-jun-1989 | LH08 | PCB221 | ND | 0.080 | UGG |
| 3.0 | 02-jun-1989 | LH08 | PCB232 | ND | 0.080 | UGG |
| 3.0 | 02-jun-1989 | LH08 | PCB242 | ND | 0.080 | UGG |
| 3.0 | 02-jun-1989 | LH08 | PCB248 | ND | 0.080 | UGG |
| 3.0 | 02-jun-1989 | LH08 | PCB254 | ND | 0.160 | UGG |
| 3.0 | 02-jun-1989 | LH08 | PCB260 | LŢ | 0.065 | UGG |
| 3.0 | 02-jun-1989 | LH08 | PPDDD | LŢ | 0.020 | UGG |
| 3.0 | 02-jun-1989 | LH08 | PPDDE | LT | 0.016 | UGG |
| 3.0 | 02-jun-1989 | LH08 | PPDDT | LT | 0.018 | UGG |
| 0.0 | 02-jun-1989 | JS05 | SB | ND | 11.000 | UGG |
| 0.0 | 02-jun-1989 | JD11 | SB | LT | 0.476 | UGG |
| 0.0 | 02-jun-1989 | JS05 | SE | LT | 103.000 | UGG |
| 0.0 | 02-jun-1989 | JD11 | SE | LT | 1.880 | UGG |

IR Installation: Gaithersburg Research FacilityPage 6 Analytical Results for Chemical Soil From: 01/01/75 and 12/7/89

Site: BORE GNL-SS-2 (continued)

| SAMPLE DEPTH (ft | SAMPLE :) DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|---------------------|-------------------|----------------|----------|------|---------------|-------|
| | | | | | | |
| 3.0 | 02-jun-1989 | 99 | TCLEA | LT | 0.003 | UGG |
| 3.0 | 02-jun-1989 | 99 | TCLEE | LT | 0.010 | UGG |
| 0.0 | 02-jun-1989 | JS05 | TL | LT | 67.600 | UGG |
| 0.0 | 02-jun-1989 | JD11 | TL | LT | 2.150 | UGG |
| 3.0 | 02-jun-1989 | 99 | TRCLE | LT | 0.002 | UGG |
| 3.0 | 02-jun-1989 | LH08 | TXPHEN | ND | 0.160 | UGG |
| 0.0 | 02-jun-1989 | JS05 | ZN | | 37.300 | UGG |

Site: BORE GNL-SS-3

| SAMPLE DEPTH (ft) | SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------------|----------------|----------------|----------|------|---------------|-------|
| 3.0 | 02-jun-1989 | 99 | 111TCE | LT | 0.007 | UGG |
| 3.0 | 02-jun-1989 | 99 | 112TCE | LT | 0.003 | UGG |
| 3.0 | 02-jun-1989 | 99 | 11DCE | LT | 0.014 | UGG |
| 3.0 | 02-jun-1989 | 99 | 11DCLE | LT | 0.009 | UGG |
| 3.0 | 02-jun-1989 | 99 | 12DCE | LT | 0.007 | UGG |
| 3.0 | 02-jun-1989 | 99 | 12DCLE | LT | 0.006 | UGG |
| 3.0 | 02-jun-1989 | 99 | 12DCLP | LT | 0.012 | UGG |
| 3.0 | 02-jun-1989 | 99 | 2CLEVE | LT | 0.006 | UGG |
| 3.0 | 02-jun-1989 | LH08 | ABHC | ND | 0.008 | UGG |
| 3.0 | 02-jun-1989 | 99 | ACROLN | ND | 0.121 | UGG |
| 3.0 | 02-jun-1989 | 99 | ACRYLO | ND | 0.121 | UGG |
| 3.0 | 02-jun-1989 | LH08 | aenslf | ND | 0.008 | UGG |
| 0.0 | 02-jun-1989 | JS05 | AG | LT | 0.783 | UGG |
| 3.0 | 02-jun-1989 | LH08 | ALDRN | LT | 0.013 | UGG |
| 0.0 | 02-jun-1989 | JD11 | AS | LT | 1.980 | UGG |
| 3.0 | 02-jun-1989 | LH08 | BBHC | ND | 0.008 | UGG |
| 0.0 | 02-jun-1989 | JS05 | BE | | 0.670 | UGG |
| 3.0 | 02-jun-1989 | LH08 | BENSLF | ND | 0.016 | UGG |
| 3.0 | 02-jun-1989 | 99 | BRDCLM | ND | 6.040 | UGG |
| 3.0 | 02-jun-1989 | 99 | C13DCP | LT | 0.003 | UGG |
| 3.0 | 02-jun-1989 | 99 | C2H3CL | LT | 0.009 | UGG |
| 3.0 | 02-jun-1989 | 99 | C2H5CL | LT | 0.012 | UGG |
| 3.0 | 02-jun-1989 | 99 | C6H6 | LT | 0.006 | UGG |
| 3.0 | 02-jun-1989 | 99 | CCL4 | LT | 0.002 | UGG |
| 0.0 | 02-jun-1989 | JS05 | CD | LT | 1.090 | UGG |
| 3.0 | 02-jun-1989 | 99 | CH2CL2 | ND | 0.006 | UGG |
| 3.0 | 02-jun-1989 | 99 | CH3BR | ND | 0.012 | UGG |
| 3.0 | 02-jun-1989 | 99 | CH3CL | LT | 0.005 | UGG |
| 3.0 | 02-jun-1989 | 99 | CHBR3 | LT | 0.005 | UGG |
| 3.0 | 02-jun-1989 | 99 | CHCL3 | LT | 0.018 | UGG |
| 3.0 | 02-jun-1989 | 99 | CLC6H5 | LŢ | 0.002 | UGG |
| 3.0 | 02-jun-1989 | LH08 | CLDAN | LT | 0.032 | UGG |
| 0.0 | 02-jun-1989 | JS05 | CR | LT | 9.630 | UGG |
| 0.0 | 02-jun-1989 | JS05 | CU | | 18.200 | UGG |

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Site: BORE GNL-SS-3 (continued)

| SAMPLE DEPTH (ft) | SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------------|----------------------------|----------------|-------------|----------|-----------------|------------|
| 0.0 | 02-jun-1989 | KF12 | CYN | LT | 22.300 | UGG |
| 3.0 | 02-jun-1989 | LH08 | DBHC | ND | 0.008 | UGG |
| 3.0 | 02-jun-1989 | 99 | DBRCLM | LT | 0.003 | UGG |
| 3.0 | 02-jun-1989 | LH08 | DLDRN | LT | 0.008 | UGG |
| 3.0 | 02-jun-1989 | LH08 | ENDRN | ND | 0.016 | UGG |
| 3.0 | 02-jun-1989 | LH08 | ENDRNK | ND | 0.016 | UGG |
| 3.0 | 02-jun-1989 | LH08 | esfs04 | ND | 0.016 | UGG |
| 3.0 | 02-jun-1989 | 99 | ETC6H5 | LT | 0.012 | UGG |
| 0.0 | 02-jun-1989 | 99 | HG | | 0.091 | UGG |
| 3.0 | 02-jun-1989 | LH08 | HPCL | LT | 0.014 | UGG |
| 3.0 | 02-jun-1989 | LH08 | HPCLE | LT | 0.094 | DGG |
| 3.0 | 02-jun-1989 | LH08 | ISODR | LT | 0.140 | UGG |
| 3.0 | 02-jun-1989 | LH08 | LIN | LT | 0.041 | UGG |
| 3.0 | 02-jun-1989 | 99 | MEC6H5 | LT | 0.007 | UGG |
| 3.0 | 02-jun-1989 | LH08 | MEXCLR | ND | 0.080 | UGG |
| 0.0 | 02-jun-1989 | JS05 | NI | | 4.760 | UGG |
| 0.0 | 02-jun-1989 | JS05 | PB | LT | 96.100 | UGG |
| 3.0 | 02-jun-1989 | LH08 | PCB016 | LT | 0.092 | UGG |
| 3.0 | 02-jun-1989 | LH08 | PCB221 | ND | 0.080 | UGG |
| 3.0 | 02-jun-1989 | LH08 | PCB232 | ND | 0.080 | UGG |
| 3.0 | 02-jun-1989 | LH08 | PCB242 | ND | 0.080 | UGG |
| 3.0 | 02-jun-1989 | LH08 | PCB248 | ND | 0.080 | UGG |
| 3.0 | 02-jun-1989 | LH08 | PCB254 | ND | 0.160 | UGG |
| 3.0 | 02-jun-1989 | LH08 | PCB260 | LT | 0.065 | UGG |
| 3.0 | 02-jun-1989 | LH08 | PPDDD | LT | 0.020 | UGG |
| 3.0 | 02-jun-1989 | LH08 | PPDDE | LT | 0.016 | UGG |
| 3.0 | 02-jun-1989 | LH08 | PPDDT | LT | 0.018 | UGG |
| 0.0 | 02-jun-1989 | JS05 | SB | ND LT | 11.000 0.476 | UGG UGG |
| 0.0 | 02-jun-1989 | JD11 | SB | | 103.000 | UGG |
| 0.0 | 02-jun-1989 | JS05 | SE | LT LT | 1.880 | UGG |
| 0.0 | 02-jun-1989 | JD11 99 | se TCLEA | LT | 0.003 | UGG |
| 3.0 | 02-jun-1989 | 99 | TCLEE | LT | 0.003 | UGG |
| 3.0 | 02-jun-1989 02-jun-1989 | JS05 | TL | LT | 67.600 | UGG |
| 0.0 | 02-jun-1989 02-jun-1989 | JD11 | TL | LT | 2.150 | UGG |
| 3.0 | 02-jun-1989 02-jun-1989 | 99 2011 | TRCLE | LT | 0.002 | UGG |
| 3.0 | 02-jun-1989 | LH08 | TXPHEN | ND | 0.160 | UGG |
| 0.0 | 02-jun-1989 | JS05 | ZN | 110 | 28.200 | UGG |
| 0.0 | - Jun 1709 | 0000 | | | 20.20 | |

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Site: DTCH GNC-SS-6

| SAMPLE | SAMPLE | TEST | | | | |
|------------|-------------|--------|----------|------|---------------|------------|
| DEPTH (ft) |) DATE | METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
| 4.0 | 02-jun-1989 | 99 | 111TCE | LT | 0.007 | 1100 |
| 4.0 | 02-jun-1989 | 99 | 112TCE | LT | 0.003 | ugg ugg |
| 4.0 | 02-jun-1989 | 99 | 11DCE | LT | 0.015 | UGG |
| 4.0 | 02-jun-1989 | 99 | 11DCLE | LT | 0.009 | UGG |
| 4.0 | 02-jun-1989 | 99 | 12DCE | LT | 0.003 | UGG |
| 4.0 | 02-jun-1989 | 99 | 12DCLE | LT | 0.006 | UGG |
| 4.0 | 02-jun-1989 | 99 | 12DCLP | LT | 0.012 | UGG |
| 4.0 | 02-jun-1989 | 99 | 2CLEVE | LT | 0.006 | UGG |
| 4.0 | 02-jun-1989 | LH08 | ABHC | ND | 0.008 | UGG |
| 4.0 | 02-jun-1989 | 99 | ACROLN | ND | 0.122 | UGG |
| 4.0 | 02-jun-1989 | 99 | ACRYLO | ND | 0.122 | UGG |
| 4.0 | 02-jun-1989 | LH08 | AENSLF | ND | 0.008 | UGG |
| 0.0 | 02-jun-1989 | JS05 | AG | LT | 0.783 | UGG |
| 4.0 | 02-jun-1989 | LH08 | ALDRN | LT | 0.013 | UGG |
| 0.0 | 02-jun-1989 | JD11 | AS | LT | 1.980 | UGG |
| 4.0 | 02-jun-1989 | LH08 | BBHC | ND | 0.008 | UGG |
| 0.0 | 02-jun-1989 | JS05 | BE | | 0.731 | UGG |
| 4.0 | 02-jun-1989 | LH08 | BENSLF | ND | 0.016 | UGG |
| 4.0 | 02-jun-1989 | 99 | BRDCLM | ND | 6.090 | UGG |
| 4.0 | 02-jun-1989 | 99 | C13DCP | LT | 0.003 | UGG |
| 4.0 | 02-jun-1989 | 99 | C2H3CL | LT | 0.010 | UGG |
| 4.0 | 02-jun-1989 | 99 | C2H5CL | LT | 0.012 | UGG |
| 4.0 | 02-jun-1989 | 99 | C6H6 | LT | 0.006 | UGG |
| 4.0 | 02-jun-1989 | 99 | CCL4 | LT | 0.002 | UGG |
| 0.0 | 02-jun-1989 | JS05 | CD | LT | 1.090 | UGG |
| 4.0 | 02-jun-1989 | 99 | CH2CL2 | ND | 0.006 | UGG |
| 4.0 | 02-jun-1989 | 99 | CH3BR | ND | 0.012 | UGG |
| 4.0 | 02-jun-1989 | 99 | CH3CL | LT | 0.005 | UGG |
| 4.0 | 02-jun-1989 | 99 | CHBR3 | LT | 0.005 | UGG |
| 4.0 | 02-jun-1989 | 99 | CHCL3 | LT | 0.018 | UGG |
| 4.0 | 02-jun-1989 | 99 | CLC6H5 | LT | 0.002 | UGG |
| 4.0 | 02-jun-1989 | LH08 | CLDAN | LT | 0.032 | UGG |
| 0.0 | 02-jun-1989 | JS05 | CR | | 10.400 | UGG |
| 0.0 | 02-jun-1989 | JS05 | CU | | 20.500 | UGG |
| 0.0 | 02-jun-1989 | KF12 | CYN | LT | 22.300 | UGG |
| 4.0 | 02-jun-1989 | LH08 | DBHC | ND | 0.008 | UGG |
| 4.0 | 02-jun-1989 | 99 | DBRCLM | LT | 0.003 | UGG |
| 4.0 | 02-jun-1989 | LH08 | DLDRN | LT | 0.008 | UGG |
| 4.0 | 02-jun-1989 | LH08 | ENDRN | ND | 0.016 | UGG |
| 4.0 | 02-jun-1989 | LH08 | ENDRNK | ND | 0.016 | UGG |
| 4.0 | 02-jun-1989 | LH08 | ESFSO4 | ND | 0.016 | UGG |
| 4.0 | 02-jun-1989 | 99 | ETC6H5 | LT | 0.012 | UGG |
| 0.0 | 02-jun-1989 | 99 | HG | LT | 0.018 | UGG |
| 4.0 | 02-jun-1989 | LH08 | HPCL | LT | 0.014 | UGG |
| 4.0 | 02-jun-1989 | LH08 | HPCLE | LT | 0.094 | UGG |
| 4.0 | 02-jun-1989 | LH08 | ISODR | LT | 0.140 | UGG |
| 4.0 | 02-jun-1989 | LH08 | LIN | LT | 0.041 | UGG |
| 4.0 | 02-jun-1989 | 99 | MEC6H5 | LT | 0.008 | UGG |

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IR Installation: Gaithersburg Research FacilityPage 9 Analytical Results for Chemical Soil From: 01/01/75 and 12/7/89

Site: DTCH GNC-SS-6 (continued)

| SAMPLE | SAMPLE | TEST | | | | |
|-----------|-------------|--------|----------|------|---------------|-------|
| DEPTH (ft |) DATE | METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
| | | | | | | |
| 4.0 | 02-jun-1989 | LH08 | MEXCLR | ND | 0.080 | UGG |
| 0.0 | 02-jun-1989 | JS05 | NI | | 4.070 | UGG |
| 0.0 | 02-jun-1989 | JS05 | PB | LT | 96.100 | UGG |
| 4.0 | 02-jun-1989 | LH08 | PCB016 | LT | 0.092 | UGG |
| 4.0 | 02-jun-1989 | LH08 | PCB221 | ND | 0.080 | UGG |
| 4.0 | 02-jun-1989 | LH08 | PCB232 | ND | 0.080 | UGG |
| 4.0 | 02-jun-1989 | LH08 | PCB242 | ND | 0.080 | UGG |
| 4.0 | 02-jun-1989 | LH08 | PCB248 | ND | 0.080 | UGG |
| 4.0 | 02-jun-1989 | LH08 | PCB254 | ND | 0.160 | UGG |
| 4.0 | 02-jun-1989 | LH08 | PCB260 | LT | 0.065 | UGG |
| 4.0 | 02-jun-1989 | LH08 | PPDDD | LT | 0.020 | UGG |
| 4.0 | 02-jun-1989 | LH08 | PPDDE | LT | 0.016 | UGG |
| 4.0 | 02-jun-1989 | LH08 | PPDDT | LT | 0.018 | UGG |
| 0.0 | 02-jun-1989 | JS05 | SB | ND | 11.000 | UGG |
| 0.0 | 02-jun-1989 | JD11 | SB | LT | 0.480 | UGG |
| 0.0 | 02-jun-1989 | JS05 | SE | LT | 103.000 | UGG |
| 0.0 | 02-jun-1989 | JD11 | SE | LT | 1.880 | UGG |
| 4.0 | 02-jun-1989 | 99 | TCLEA | LT | 0.003 | UGG |
| 4.0 | 02-jun-1989 | 99 | TCLEE | LT | 0.010 | UGG |
| 0.0 | 02-jun-1989 | JS05 | TL, | LT | 67.600 | UGG |
| 0.0 | 02-jun-1989 | JD11 | TL. | LT | 2.150 | UGG |
| 4.0 | 02-jun-1989 | 99 | TRCLE | LT | 0.002 | UGG |
| 4.0 | 02-jun-1989 | LH08 | TXPHEN | ND | 0.160 | UGG |
| 0.0 | 02-jun-1989 | JS05 | ZN | | 20.800 | UGG |

Site: DTCH GNC-SS-7

| SAMPLE DEPTH (ft | SAMPLE :) DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|---------------------|-------------------|----------------|----------|----------------------------|---------------|-------|
| | | | | | | |
| 2.0 | 02-jun-1989 | 99 | 111TCE | LT | 0.007 | UGG |
| 2.0 | 02-jun-1989 | 99 | 112TCE | $\mathbf{L}_{i}\mathbf{T}$ | 0.003 | UGG |
| 2.0 | 02-jun-1989 | 99 | 11DCE | LT | 0.014 | UGG |
| 2.0 | 02-jun-1989 | 99 | 11DCLE | LT | 0.008 | UGG |
| 2.0 | 02-jun-1989 | 99 | 12DCE | LT | 0.007 | UGG |
| 2.0 | 02-jun-1989 | 99 | 12DCLE | LT | 0.005 | UGG |
| 2.0 | 02-jun-1989 | 99 | 12DCLP | LT | 0.011 | UGG |
| 2.0 | 02-jun-1989 | 99 | 2CLEVE | LT | 0.006 | UGG |
| 2.0 | 02-jun-1989 | LH08 | ABHC | ND | 0.008 | UGG |
| 2.0 | 02-jun-1989 | 99 | ACROLN | ND | 0.114 | UGG |
| 2.0 | 02-jun-1989 | 99 | ACRYLO | ND | 0.114 | UGG |
| 2.0 | 02-jun-1989 | LH08 | AENSLF | ND | 0.008 | UGG |
| 0.0 | 02-jun-1989 | JS05 | AG | LT | 0.783 | UGG |
| 2.0 | 02-jun-1989 | LH08 | ALDRN | LT | 0.013 | UGG |
| 0.0 | 02-jun-1989 | JD11 | AS | | 2.550 | UGG |
| 2.0 | 02-jun-1989 | LH08 | BBHC | ND | 0.008 | UGG |
| 0.0 | 02-jun-1989 | JS05 | BE | | 1.580 | UGG |

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Site: DTCH GNC-SS-7 (continued)

| SAMPLE DEPTH (ft) | SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------------|----------------------------|----------------|----------|------|---------------|------------|
| | 1000 | LH08 | BENSLF | ND | 0.016 | UGG |
| 2.0 | 02-jun-1989 | | BRDCLM | ND | 5.700 | UGG |
| 2.0 | 02-jun-1989 | 99 99 | C13DCP | LT | 0.003 | UGG |
| 2.0 | 02-jun-1989 | 99 | C2H3CL | LT | 0.009 | UGG |
| 2.0 | 02-jun-1989 | 99 | C2H5CL | LT | 0.011 | UGG |
| 2.0 | 02-jun-1989 | 99 | C6H6 | LT | 0.005 | UGG |
| 2.0 | 02-jun-1989 | 99 | CCL4 | LT | 0.002 | UGG |
| 2.0 | 02-jun-1989 | JS05 | CD | LT | 1.090 | UGG |
| 0.0 | 02-jun-1989 | 99 | CH2CL2 | ND | 0.006 | UGG |
| 2.0 | 02-jun-1989 | 99 | CH3BR | ND | 0.011 | UGG |
| 2.0 | 02-jun-1989 | 99 | CH3CL | LT | 0.005 | UGG |
| 2.0 | 02-jun-1989 | 99 | CHBR3 | LT | 0.004 | UGG |
| 2.0 | 02-jun-1989 | 99 | CHCL3 | LT | 0.017 | UGG |
| 2.0 | 02-jun-1989 | 99 | CLC6H5 | LT | 0.002 | UGG |
| 2.0 | 02-jun-1989 | LH08 | CLDAN | LT | 0.032 | UGG |
| 2.0 | 02-jun-1989 | JS05 | CR | | 40.300 | UGG |
| 0.0 | 02-jun-1989 | JS05 | CU | | 100.000 | UGG |
| 0.0 | 02-jun-1989 | KF12 | CYN | LT | 22.300 | UGG |
| 0.0 | 02-jun-1989 | LH08 | DBHC | ND | 0.008 | UGG |
| 2.0 | 02-jun-1989 | 99 | DBRCLM | LT | 0.003 | UGG |
| 2.0 | 02-jun-1989 | LH08 | DLDRN | LT | 0.008 | UGG |
| 2.0 | 02-jun-1989 | LH08 | ENDRN | ND | 0.016 | UGG |
| 2.0 | 02-jun-1989 | LH08 | ENDRNK | ND | 0.016 | UGG |
| 2.0 | 02-jun-1989 | LH08 | ESFS04 | ND | 0.016 | UGG |
| 2.0 | 02-jun-1989 | 99 | ETC6H5 | LT | 0.011 | UGG |
| 2.0 | 02-jun-1989 | 99 | HG | | 0.020 | UGG |
| 0.0 | 02-jun-1989 | LH08 | HPCL | LT | 0.014 | UGG |
| 2.0 | 02-jun-1989 | LH08 | HPCLE | LT | 0.094 | UGG |
| 2.0 | 02-jun-1989 | LH08 | ISODR | LT | 0.140 | UGG |
| 2.0 | 02-jun-1989 02-jun-1989 | LH08 | LIN | LT | 0.041 | UGG |
| 2.0 | 02-jun-1989 | 99 | MEC6H5 | LT | 0.007 | UGG |
| 2.0 | 02-jun-1989 | LH08 | MEXCLR | ND | 0.080 | UGG |
| 2.0 | 02-jun-1989 | JS05 | NI | | 36.100 | UGG |
| 0.0 | 02-jun-1989 | JS05 | PB | LT | 96.100 | UGG |
| 0.0 | 02-jun-1989 | LH08 | PCB016 | LT | 0.092 | UGG |
| 2.0 | 02-jun-1989 | LH08 | PCB221 | ND | 0.080 | UGG |
| 2.0 | C2-jun-1989 | LH08 | PCB232 | ND | 0.080 | UGG |
| 2.0 | 02-jun-1989 | LH08 | PCB242 | ND | 0.080 | UGG |
| 2.0 2.0 | 02-jun-1989 | LH08 | F JB248 | МD | 0.080 | UGG UGG |
| 2.0 | 02-jun-1989 | LH08 | PCB254 | ND | 0.160 | UGG |
| 2.0 | 02-jun-1989 | LH08 | PCB260 | ĻT | 0.065 | UGG |
| 2.0 | 02-jun-1989 | LH08 | PPDDD | ĻT | 0.020 | UGG |
| 2.0 | 02-jun-1989 | LH08 | PPDDE | LT | 0.016 | UGG |
| 2.0 | 02-jun-1989 | LH08 | PPDDT | LT | 0.018 | UGG |
| 0.0 | 02-jun-1989 | JS05 | SB | ИD | 11.000 | UGG |
| 0.0 | 02-jun-1989 | JD11 | SB | LT | 0.448 | UGG |
| 0.0 | 02-jun-1989 | JS05 | SE | LT | 103.000 | UGG |
| 0.0 | 02-jun-1989 | JD11 | SE | LT | 1.880 | 0.33 |
| 0.0 | Va j | | | | | |

IR Installation: Gaithersburg Research FacilityPage 11 Analytical Results for Chemical Soil From: 01/01/75 and 12/7/89

Site: DTCH GNC-SS-7 (continued)

| SAMPLE DEPTH (ft | SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|---------------------|----------------|----------------|----------|------|---------------|-------|
| | | | | | | |
| 2.0 | 02-jun-1989 | 99 | TCLEA | LT | 0.003 | UGG |
| 2.0 | 02-jun-1989 | 99 | TCLEE | LT | 0.009 | UGG |
| 0.0 | 02-jun-1989 | JS05 | TL | LT | 67.600 | UGG |
| 0.0 | 02-jun-1989 | JD11 | TL | LT | 2.150 | UGG |
| 2.0 | 02-jun-1989 | 99 | TRCLE | LT | 0.002 | UGG |
| 2.0 | 02-jun-1989 | LH08 | TXPHEN | ND | 0.160 | UGG |
| 0.0 | 02-jun-1989 | JS05 | ZN | | 100.000 | UGG |

Site: DTCH GNL-SS-4

| SAMPLE DEPTH (ft | SAMPLE) DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|---------------------|------------------|----------------|---------------|------|---------------|-------|
| 2.0 | 02-jun-1989 | 99 | 111TCE | LT | 0.007 | UGG |
| 2.0 | 02-jun-1989 | 99 | 112TCE | LT | 0.003 | UGG |
| 2.0 | 02-jun-1989 | 99 | 11DCE | LT | 0.014 | UGG |
| 2.0 | 02-jun-1989 | 99 | 11DCLE | LT | 0.009 | UGG |
| 2.0 | 02-jun-1989 | 99 | 12DCE | LT | 0.007 | UGG |
| 2.0 | 02-jun-1989 | 99 | 12DCLE | LT | 0.006 | UGG |
| 2.0 | 02-jun-1989 | 99 | 12DCLP | LT | 0.012 | UGG |
| 2.0 | 02-jun-1989 | 99 | 2CLEVE | LT | 0.006 | UGG |
| 2.0 | 02-jun-1989 | LH08 | ABHC | ND | 0.008 | UGG |
| 2.0 | 02-jun-1989 | 99 | ACROLN | ND | 0.120 | UGG |
| 2.0 | 02-jun-1989 | 99 | ACRYLO | ND | 0.120 | UGG |
| 2.0 | 02-jun-1989 | LH08 | AENSLF | ND | 0.008 | UGG |
| 0.0 | 02-jun-1989 | JS05 | AG | LT | 0.783 | UGG |
| 2.0 | 02-jun-1989 | LH08 | ALDRN | LT | 0.013 | UGG |
| 0.0 | 02-jun-1989 | JD11 | AS | | 2.710 | UGG |
| 2.0 | 02-jun-1989 | LH08 | BBHC | ND | 0.008 | UGG |
| 0.0 | 02-jun-1989 | JS05 | BE | | 1.040 | UGG |
| 2.0 | 02-jun-1989 | LH08 | Benslf | ND | 0.016 | UGG |
| 2.0 | 02-jun-1989 | 99 | BRDCLM | ND | 5.990 | UGG |
| 2.0 | 02-jun-1989 | 99 | C13DCP | LT | 0.003 | UGG |
| 2.0 | 02-jun-1989 | 99 | C2H3CL | LT | 0.009 | UGG |
| 2.0 | 02-jun-1989 | 99 | C2H5CL | LT | 0.012 | UGG |
| 2.0 | 02-jun-1989 | 99 | С6Н6 | LT | 0.006 | UGG |
| 2.0 | 02-jun-1989 | 99 | CCL4 | LT | 0.002 | UGG |
| 0.0 | 02-jun-1989 | JS05 | CD | LT | 1.090 | UGG |
| 2.0 | 02-jun-1989 | 99 | CH2CL2 | ND | 0.006 | UGG |
| 2.0 | 02-jun-1989 | 99 | CH3BR | ND | 0.012 | UGG |
| 2.0 | 02-jun-1989 | 99 | CH3CL | ĻT | 0.005 | UGG |
| 2.0 | 02-jun-1989 | 99 | CHBR3 | ĻT | 0.005 | UGG |
| 2.0 | 02-jun-1989 | 99 | CHCL3 | LT | 0.018 | UGG |
| 2.0 | 02-jun-1989 | 99 | CLC6H5 | LT | 0.002 | UGG |
| 2.0 | 02-jun-1989 | LH08 | CLDAN | LT | 0.032 | UGG |
| 0.0 | 02-jun-1989 | JS05 | CR | | 20.000 | UGG |
| 0.0 | 02-jun-1989 | JS05 | CU | | 35.100 | UGG |

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Site: DTCH GNL-SS-4 (continued)

| SAMPLE DEPTH (ft) | SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------------|----------------|----------------|----------|------|---------------|-------|
| 0.0 | 02-jun-1989 | KF12 | CYN | LT | 22.300 | 1JGG |
| 2.0 | 02-jun-1989 | LH08 | DBHC | ND | 0.008 | UGG |
| 2.0 | 02-jun-1989 | 99 | DBRCLM | LT | 0.003 | UGG |
| 2.0 | 02-jun-1989 | LH08 | DLDRN | LT | 0.008 | UGG |
| 2.0 | 02-jun-1989 | LH08 | ENDRN | ND | 0.016 | UGG |
| 2.0 | 02-jun-1989 | LH08 | ENDRNK | ND | 0.016 | UGG |
| 2.0 | 02-jun-1989 | LH08 | ESFSO4 | ND | 0.016 | UGG |
| 2.0 | 02-jun-1989 | 99 | ETC6H5 | LT | 0.012 | UGG |
| 0.0 | 02-jun-1989 | 99 | HG | | 0.018 | UGG |
| 2.0 | 02-jun-1989 | LH08 | HPCL | LT | 0.014 | UGG |
| 2.0 | 02-jun-1989 | LH08 | HPCLE | LT | 0.094 | UGG |
| 2.0 | 02-jun-1989 | LH08 | ISODR | LT | 0.140 | UGG |
| 2.0 | 02-jun-1989 | LH08 | LIN | LT | 0.041 | UGG |
| 2.0 | 02-jun-1989 | 99 | MEC6H5 | LT | 0.007 | UGG |
| 2.0 | 02-jun-1989 | LH08 | MEXCLR | ND | 0.080 | UGG |
| 0.0 | 02-jun-1989 | JS05 | NI | | 8.450 | UGG |
| 0.0 | 02-jun-1989 | JS05 | PB | LT | 96.100 | UGG |
| 2.0 | 02-jun-1989 | LH08 | PCB016 | LT | 0.092 | UGG |
| 2.0 | 02-jun-1989 | LH08 | PCB221 | ND | 0.080 | UGG |
| 2.0 | 02-jun-1989 | LH08 | PCB232 | ND | 0.080 | UGG |
| 2.0 | 02-jun-1989 | LH08 | PCB242 | ND | 0.080 | UGG |
| 2.0 | 02-jun-1989 | LH08 | PCB248 | ND | 0.080 | UGG |
| 2.0 | 02-jun-1989 | LH08 | PCB254 | ND | 0.160 | UGG |
| 2.0 | 02-jun-1989 | LH08 | PCB260 | LT | 0.065 | UGG |
| 2.0 | 02-jun-1989 | LH08 | PPDDD | LT | 0.020 | UGG |
| 2.0 | 02-jun-1989 | LH08 | PPDDE | LT | 0.016 | UGG |
| 2.0 | 02-jun-1989 | LH08 | PPDDT | LT | 0.018 | UGG |
| 0.0 | 02-jun-1989 | JS05 | SB | ND | 11.000 | UGG |
| 0.0 | 02-jun-1989 | JD11 | SB | LT | 0.471 | UGG |
| 0.0 | 02-jun-1989 | JS05 | SE | LT | 103.000 | UGG |
| 0.0 | 02-jun-1989 | JD11 | SE | LT | 1.880 | UGG |
| 2.0 | 02-jun-1989 | 99 | TCLEA | LT | 0.003 | UGG |
| 2.0 | 02-jun-1989 | 99 | TCLEE | LT | 0.009 | UGG |
| 0.0 | 02-jun-1989 | JS05 | TL | LT | 67.600 | UGG |
| 0.0 | 02-jun-1989 | JD11 | TL | LT | 2.150 | UGG |
| 2.0 | 02-jun-1989 | 99 | TRCLE | LT | 0.002 | UGG |
| 2.0 | 02-jun-1989 | LH08 | TXPHEN | ND | 0.160 | UGG |
| 0.0 | 02-jun-1989 | JS05 | ZN | | 34.800 | UGG |

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Site: DTCH GNL-SS-5

| SAMPLE DEPTH (| SAMPLE ft) DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|-------------------|----------------------------|----------------|-----------------|----------|----------------|------------|
| 2.0 | 02-jun-1989 | 99 | 111000 | | | |
| 2.0 | 02-jun-1989 | 99 | 111TCE | LT | 0.007 | UGG |
| 2.0 | 02-jun-1989 | 99 | 112TCE | LT | 0.003 | UGG |
| 2.0 | 02-jun-1989 | 99 | 11DCE | LT | 0.014 | UGG |
| 2.0 | 02-jun-1989 | 99 | 11DCLE 12DCE | LT | 0.009 | UGG |
| 2.0 | 02-jun-1989 | 99 | 12DCE 12DCLE | LT | 0.007 | UGG |
| 2.0 | 02-jun-1989 | 99 | 12DCLP | LT | 0.006 | UGG |
| 2.0 | 02-jun-1989 | 99 | 2CLEVE | LT | 0.012 | UGG |
| 2.0 | 02-jun-1989 | LHOS | ABHC | LT | 0.006 | UGG |
| 2.0 | 02-jun-1989 | 99 | ACROLN | ND | 0.008 | UGG |
| 2.0 | 02-jun-1989 | 99 | ACRYLO | ND | 0.119 | UGG |
| 2.0 | 02-jun-1989 | LH08 | AENSLF | ND DN | 0.119 | UGG |
| 0.0 | 02-jun-1989 | JS05 | AG | LT | 0.008 | UGG |
| 2.0 | 02-jun-1989 | LH08 | ALDRN | LT | 0.783 | UGG |
| 0.0 | 02-jun-1989 | JD11 | AS | LT | 0.013 | UGG |
| 2.0 | 02-jun-1989 | LH08 | BBHC | ND | 1.980 | UGG |
| 0.0 | 02-jun-1989 | JS05 | BE | ND | 0.008 | UGG |
| 2.0 | 02-jun-1989 | LH08 | BENSLF | ND | 0.823 | UGG |
| 2.0 | 02-jun-1989 | 99 | BRDCLM | ND | 0.016 | UGG |
| 2.0 | 02-jun-1989 | 99 | C13DCP | LT | 5.970 | UGG |
| 2.0 | 02-jun-1989 | 99 | C2H3CL | LT | 0.003 | UGG |
| 2.0 | 02-jun-1989 | 99 | C2H5CL | LT | 0.009 | UGG |
| 2.0 | 02-jun-1989 | 99 | C6H6 | LT | 0.012 | UGG |
| 2.0 | 02-jun-1989 | 99 | CCL4 | LT | 0.006 | UGG |
| 0.0 | 02-jun-1989 | JS05 | CD | LT | 0.002 | UGG |
| 2.0 | 02-jun-1989 | 99 | CH2CL2 | ND | 1.090 | UGG |
| 2.0 | 02-jun-1989 | 99 | CH3BR | ND | 0.006 | UGG |
| 2.0 | 02-jun-1989 | 99 | CH3CL | LT | 0.012 | UGG |
| 2.0 | 02-jun-1989 | 99 | CHBR3 | LT | 0.005 0.005 | UGG |
| 2.0 | 02-jun-1989 | 99 | CHCL3 | LT | 0.003 | UGG |
| 2.0 | 02-jun-1989 | 99 | CLC6H5 | LT | 0.018 | UGG |
| 2.0 | 02-jun-1989 | LH08 | CLDAN | LT | 0.032 | UGG |
| 0.0 0.0 | 02-jun-1989 | JS05 | CR | | 27.300 | UGG |
| 0.0 | 02-jun-1989 | JS05 | CU | | 81.000 | UGG |
| 2.0 | 02-jun-1989 | KF12 | CYN | LT | 22.300 | UGG |
| 2.0 | 02-jun-1989 | LH08 | DBHC | ND | 0.008 | ugg ugg |
| 2.0 | 02-jun-1989 | 99 | DBRCLM | LT | 0.003 | UGG |
| 2.0 | 02-jun-1989 | LH08 | DLDRN | LT | 0.008 | UGG |
| 2.0 | 0°-jun-1989 | LH08 | ENDRN | ND | 0.016 | UGG |
| 2.0 | 02-jun-1989 | LH08 | ENDRNK | ND | 0.016 | UGG |
| 2.0 | 02-jun-1989 | TH08 | ESFS04 | ND | 0.016 | UGG |
| 0.0 | 02-jun-1989 02-jun-1989 | 99 | ETC6H5 | LT | 0.012 | UGG |
| 2.0 | 02-jun-1989 02-jun-1989 | 99 | HG | | 0.033 | UGG |
| 2.0 | 02-jun-1989 | THO8 | HPCL | LT | 0.014 | VGG |
| 2.0 | 02-jun-1989 02-jun-1989 | LH08 | HPCLE | LT | 0.094 | UGG |
| 2.0 | 02-jun-1989 02-jun-1989 | LH08 | ISODR | LT | 0.140 | UGG |
| 2.0 | 02-jun-1989 | LH08 | LIN | LT | 0.041 | UGG |
| _, _ | -5 Jm1-1303 | 99 | MEC6H5 | LT | 0.007 | UGG |
| | | | | | | |

Dec 7, 1989

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Analytical Results for Chemical Soil
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(continued) Site: DTCH GNL-SS-5

| SAMPLE DEPTH (ft) 2.0 0.0 0.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 | SAMPLE DATE 02-jun-1989 | TEST METHOD LH08 JS05 JS05 LH08 LH08 LH08 LH08 LH08 LH08 LH08 LH08 | COMPOUND MEXCLR NI PB PCB016 PCB221 PCB232 PCB242 PCB248 PCB254 PCB260 PPDDD PPDDD PPDDT SB SB SE TCLEA TCLEE TL TL TRCLE TXPHEN ZN | BOOL NO THE DEED NOT LITTED THE LITTED NO. LITTED N | O.080 21.400 96.100 0.092 0.080 0.080 0.080 0.080 0.160 0.065 0.020 0.016 0.018 11.000 0.470 103.000 1.880 0.003 0.009 67.600 2.150 0.002 0.160 89.800 | UNITS UGG UGG UGG UGG UGG UGG UGG UGG UGG U |
|---|--|--|--|--|--|--|
|---|--|--|--|--|--|--|

Program ended normally.

QA/QC ANALYTICAL DATA Site: TRIP BLANK

| SAMPLE | TEST | | | | | | | |
|-------------------|--------|----------|------|---------------|-------|--|--|--|
| DATE | METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS | | | |
| 25-MAY-1989 | 99 | 111TCE | LT | 1.000 | UGL | | | |
| 25-MAY-1989 | 99 | 112TCE | LT | 1.700 | UGL | | | |
| 25-MAY-1989 | 99 | 11DCE | LT | 6.800 | UGL | | | |
| 25-MAY-1989 | 99 | 11DCLE | LT | 2.700 | UGL | | | |
| 25-MAY-1989 | 99 | 12DCE | LT | 2.200 | UGL | | | |
| 25-MAY-1989 | 99 | 12DCLE | LT | 1.000 | UGL | | | |
| 25-MAY-1989 | 99 | 12DCLP | LT | 3.200 | UGL | | | |
| 25-MAY-1989 | 99 | 2CLEVE | LT | 1.600 | UGL | | | |
| 25-MAY-1989 | 99 | ACROLN | ND | 100.000 | UGL | | | |
| 25-MAY-1989 | 99 | ACRYLO | ND | 100.000 | UGL | | | |
| 25-MAY-1989 | 99 | BRDCLM | ND | 5.000 | UGL | | | |
| 25-MAY-1989 | 99 | C13DCP | LT | 1.800 | UGL | | | |
| 25-MAY-1989 | 99 | C2H3CL | LT | 13.000 | UGL | | | |
| 25-MAY-1989 | 99 | C2H5CL | LT | 6.900 | UGL | | | |
| 25-MAY-1989 | 99 | С6Н6 | LT | 1.700 | UGL | | | |
| 25-MAY-1989 | 99 | CCL4 | LT | 1.000 | UGL | | | |
| 25-MAY-1989 | 99 | CH2CL2 | LT | 23.000 | UGL | | | |
| 25-MAY-1989 | 99 | CH3BR | ND | 10.000 | UGL | | | |
| 25-MAY-1989 | 99 | CH3CL | LT | 1.800 | UGL | | | |
| 25-MAY-1989 | 99 | CHBR3 | ĿТ | 3.700 | UGL | | | |
| 25-MAY-1989 | 99 | CHCL3 | LT | 1.000 | UGL | | | |
| 25-MAY-1989 | 99 | CLC6H5 | LT | 1.200 | UGL | | | |
| 25-MAY-1989 | 99 | DBRCLM | LT | 1.800 | UGL | | | |
| 25-MAY-1989 | 99 | ETC6H5 | LT | 1.400 | UGL | | | |
| 25-MAY-1989 | 99 | MEC6H5 | LT | 1.800 | UGL | | | |
| 25-MAY-1989 | 99 | TCLEA | LT | 7.100 | UGL | | | |
| 25-MAY-1989 | 99 | TCLEE | LT | 2.300 | UGL | | | |
| 25-MAY-1989 | 99 | TRCLE | LT | 1.000 | UGL | | | |
| Site: FIELD BLANK | | | | | | | | |
| 25-MAY-1989 | 99 | 111TCE | LT | 1.000 | UGL | | | |
| 25-MAY-1989 | 99 | 112TCE | LT | 1.700 | UGL | | | |
| 25-MAY-1989 | 99 | 11DCE | LT | 6.800 | UGL | | | |
| 25-MAY-1989 | 99 | 11DCLE | LT | 2.700 | UGL | | | |
| 25-MAY-1989 | UM13 | 124TCB | LT | 4.420 | UGL | | | |
| 25-MAY-1989 | 99 | 12DCE | LT | 2.200 | UGL | | | |
| 25-MAY-1989 | UM13 | 12DCLB | LT | 7.320 | UGL | | | |
| 25-MAY-1989 | 99 | 12DCLE | LT | 1.000 | UGL | | | |
| 25-MAY-1989 | 99 | 12DCLP | LT | 3.200 | UGL | | | |
| 25-MAY-1989 | UM13 | 13DCLB | LT | 8.270 | UGL | | | |
| | | | | | | | | |

Site: FIELD BLANK

| 25-MAY-1989 UM13 14DCLB LT 7.970 UGI 25-MAY-1989 UM13 246TCP ND 10.000 UGI 25-MAY-1989 UM13 24DCLP ND 10.000 UGI 25-MAY-1989 UM13 24DMPN ND 10.000 UGI 25-MAY-1989 UM13 24DNP ND 50.000 UGI 25-MAY-1989 UM13 24DNT LT 5.840 UGI 25-MAY-1989 UM13 26DNT LT 5.520 UGI 25-MAY-1989 UM13 26DNT LT 5.520 UGI 25-MAY-1989 UM13 2CLF ND 10.000 UGI 25-MAY-1989 UM13 2CLF ND 10.000 UGI 25-MAY-1989 UM13 2CNAP LT 2.070 UGI 25-MAY-1989 UM13 2CNAP LT 2.070 UGI 25-MAY-1989 UM13 3DCBD ND 50.000 UGI 25-MAY-1989 UM13 3DCBD ND 20.000 UGI 25-MAY-1989 UM13 46DN2C ND 50.000 UGI 25-MAY-1989 UM13 4BRPPE ND 10.000 UGI 25-MAY-1989 UM13 4CL3C ND 10.000 UGI 25-MAY-1989 UM13 4CL3C ND 10.000 UGI 25-MAY-1989 UM13 ABROPE ND 50.000 UGI 25-MAY-1989 UM13 ABROPE ND 10.000 UGI 25-MAY-1989 UM13 ABROPE ND 3.000 UGI 25-MAY-1989 UM13 ABROPE ND 3.000 UGI 25-MAY-1989 UM13 ABROPE ND 3.000 UGI 25-MAY-1989 UM13 ABRO ND 3.000 UGI 25-MAY-1989 UM13 ABROF ND 3.000 UGI 25-MAY-1989 UM13 ADROW LT 5.780 UGI |
|---|
| 25-MAY-1989 UM13 246TCP ND 10.000 UGL 25-MAY-1989 UM13 24DCLP ND 10.000 UGL 25-MAY-1989 UM13 24DMPN ND 10.000 UGL 25-MAY-1989 UM13 24DNP ND 50.000 UGL 25-MAY-1989 UM13 24DNT LT 5.840 UGL 25-MAY-1989 UM13 26DNT LT 5.520 UGL 25-MAY-1989 UM13 26DNT LT 5.520 UGL 25-MAY-1989 UM13 2CLEP ND 10.000 UGL 25-MAY-1989 UM13 2CLF ND 10.000 UGL 25-MAY-1989 UM13 2CNAP LT 2.070 UGL 25-MAY-1989 UM13 2NP ND 50.000 UGL 25-MAY-1989 UM13 3NP ND 50.000 UGL 25-MAY-1989 UM13 3NDCBD ND 20.000 UGL 25-MAY-1989 UM13 46DN2C ND 50.000 UGL 25-MAY-1989 UM13 46DN2C ND 50.000 UGL 25-MAY-1989 UM13 4BRPPE ND 10.000 UGL 25-MAY-1989 UM13 4CL3C ND 10.000 UGL 25-MAY-1989 UM13 4CL3C ND 10.000 UGL 25-MAY-1989 UM13 4CLPPE ND 10.000 UGL 25-MAY-1989 UM13 ABHC ND 3.000 UGL |
| 25-MAY-1989 UM13 24DCLP ND 10.000 UG1 25-MAY-1989 UM13 24DNP ND 50.000 UG1 25-MAY-1989 UM13 24DNP ND 50.000 UG1 25-MAY-1989 UM13 24DNT LT 5.840 UG1 25-MAY-1989 UM13 26DNT LT 5.520 UG1 25-MAY-1989 UM13 2CDNT LT 1.600 UG1 25-MAY-1989 UM13 2CLF ND 10.000 UG1 25-MAY-1989 UM13 2CLF ND 10.000 UG1 25-MAY-1989 UM13 2CNAP LT 2.070 UG1 25-MAY-1989 UM13 2NP ND 50.000 UG1 25-MAY-1989 UM13 3NP ND 50.000 UG1 25-MAY-1989 UM13 3NP ND 50.000 UG1 25-MAY-1989 UM13 46DN2C ND 50.000 UG1 25-MAY-1989 UM13 4BRPPE ND 10.000 UG1 25-MAY-1989 UM13 4CL3C ND 10.000 UG1 25-MAY-1989 UM13 ANP ND 50.000 UG1 25-MAY-1989 UM13 ANP ND 50.000 UG1 25-MAY-1989 UM13 ANP ND 10.000 UG1 25-MAY-1989 UM13 ANP ND 50.000 UG1 25-MAY-1989 UM13 ANP ND 3.000 UG1 25-MAY-1989 UM13 ANP ND 3.000 UG1 25-MAY-1989 UM13 ANP ND 3.000 UG1 25-MAY-1989 UM13 ANP ND 100.000 UG1 25-MAY-1989 UM13 ANNSLF ND 3.000 UG1 25-MAY-1989 UM13 ANNSNE LT 5.780 UG1 25-MAY-1989 UM13 ANNSNE LT 5.780 UG1 25-MAY-1989 UM13 ANNSNE LT 1.260 |
| 25-MAY-1989 |
| 25-MAY-1989 UM13 24DNP ND 50.000 UGI 25-MAY-1989 UM13 24DNT LT 5.840 UGI 25-MAY-1989 UM13 26DNT LT 5.520 UGI 25-MAY-1989 99 2CLEVE LT 1.600 UGI 25-MAY-1989 UM13 2CNAP LT 2.070 UGI 25-MAY-1989 UM13 2CNAP LT 2.070 UGI 25-MAY-1989 UM13 2NP ND 50.000 UGI 25-MAY-1989 UM13 3DCBD ND 20.000 UGI 25-MAY-1989 UM13 3DCBD ND 20.000 UGI 25-MAY-1989 UM13 46DN2C ND 50.000 UGI 25-MAY-1989 UM13 46DN2C ND 50.000 UGI 25-MAY-1989 UM13 4BRPPE ND 10.000 UGI 25-MAY-1989 UM13 4CL3C ND 10.000 UGI 25-MAY-1989 UM13 4CLPPE ND 10.000 UGI 25-MAY-1989 UM13 4CLPPE ND 10.000 UGI 25-MAY-1989 UM13 ANP ND 50.000 UGI 25-MAY-1989 UM13 ABHC ND 3.000 UGI 25-MAY-1989 UM13 ABHC ND 3.000 UGI 25-MAY-1989 UM13 ABHC ND 3.000 UGI 25-MAY-1989 UM13 ABHC ND 0.050 UGI 25-MAY-1989 UM13 ABHC ND 0.050 UGI 25-MAY-1989 UM13 AENSLF ND 3.000 UGI 25-MAY-1989 UM13 ALDRN LT 5.780 UGI 25-MAY-1989 UM13 ALDRN LT 5.780 UGI 25-MAY-1989 UM13 ALDRN LT 5.780 UGI 25-MAY-1989 UM13 ANAPNE LT 1.260 UGI |
| 25-MAY-1989 UM13 24DNT LT 5.840 UGL 25-MAY-1989 UM13 26DNT LT 5.520 UGL 25-MAY-1989 99 2CLEVE LT 1.600 UGL 25-MAY-1989 UM13 2CLF ND 10.000 UGL 25-MAY-1989 UM13 2CNAP LT 2.070 UGL 25-MAY-1989 UM13 2NP ND 50.000 UGL 25-MAY-1989 UM13 33DCBD ND 20.000 UGL 25-MAY-1989 UM13 46DN2C ND 50.000 UGL 25-MAY-1989 UM13 46DN2C ND 50.000 UGL 25-MAY-1989 UM13 4BRPPE ND 10.000 UGL 25-MAY-1989 UM13 4CL3C ND 10.000 UGL 25-MAY-1989 UM13 4CL3C ND 10.000 UGL 25-MAY-1989 UM13 4CL3C ND 10.000 UGL 25-MAY-1989 UM13 4CLPPE ND 10.000 UGL 25-MAY-1989 UM13 ANP ND 50.000 UGL 25-MAY-1989 UM13 ANP ND 50.000 UGL 25-MAY-1989 UM13 ABHC ND 3.000 UGL 25-MAY-1989 UM13 ABHC ND 3.000 UGL 25-MAY-1989 UM13 ABHC ND 0.050 UGL 25-MAY-1989 UM13 ABHC ND 0.050 UGL 25-MAY-1989 UM13 ABHC ND 100.000 UGL 25-MAY-1989 UM13 ABNC ND 100.000 UGL 25-MAY-1989 UM13 ABNC ND 100.000 UGL 25-MAY-1989 UM13 AENSLF ND 3.000 UGL 25-MAY-1989 UM13 ALDRN LT 5.780 UGL 25-MAY-1989 UM13 ALDRN LT 5.780 UGL 25-MAY-1989 UM13 ALDRN LT 5.780 UGL 25-MAY-1989 UM13 ANAPNE LT 1.260 UGL |
| 25-MAY-1989 UM13 26DNT LT 5.520 UGI 25-MAY-1989 99 2CLEVE LT 1.600 UGI 25-MAY-1989 UM13 2CLF ND 10.000 UGI 25-MAY-1989 UM13 2CNAP LT 2.070 UGI 25-MAY-1989 UM13 2NP ND 50.000 UGI 25-MAY-1989 UM13 33DCBD ND 20.000 UGI 25-MAY-1989 UM13 46DN2C ND 50.000 UGI 25-MAY-1989 UM13 4BRPPE ND 10.000 UGI 25-MAY-1989 UM13 4CL3C ND 10.000 UGI 25-MAY-1989 UM13 4CLPPE ND 10.000 UGI 25-MAY-1989 UM13 4NP ND 50.000 UGI 25-MAY-1989 UM13 ABHC ND 3.000 UGI 25-MAY-1989 UM13 ABHC ND 3.000 UGI 25-MAY-1989 UM13 ABHC ND 0.050 UGI 25-MAY-1989 UM13 ABHC ND 0.050 UGI 25-MAY-1989 UM13 ABHC ND 3.000 UGI 25-MAY-1989 UM13 ABHC ND 3.000 UGI 25-MAY-1989 UM13 ABHC ND 0.050 UGI 25-MAY-1989 UM13 ABHC ND 3.000 UGI 25-MAY-1989 UM13 ABHC ND 3.000 UGI 25-MAY-1989 UM13 AENSLF ND 3.000 UGI 25-MAY-1989 UM13 ALDRN LT 5.780 UGI 25-MAY-1989 UM13 ALDRN LT 5.780 UGI 25-MAY-1989 UM13 ALDRN LT 5.780 UGI 25-MAY-1989 UM13 ANAPNE LT 1.260 UGI |
| 25-MAY-1989 99 2CLEVE LT 1.600 UGI 25-MAY-1989 UM13 2CLF ND 10.000 UGI 25-MAY-1989 UM13 2CNAP LT 2.070 UGI 25-MAY-1989 UM13 2NP ND 50.000 UGI 25-MAY-1989 UM13 33DCBD ND 20.000 UGI 25-MAY-1989 UM13 46DN2C ND 50.000 UGI 25-MAY-1989 UM13 4BRPPE ND 10.000 UGI 25-MAY-1989 UM13 4CL3C ND 10.000 UGI 25-MAY-1989 UM13 4NP ND 50.000 UGI 25-MAY-1989 UM13 ABHC ND 3.000 UGI 25-MAY-1989 UM13 ABHC ND 0.050 UGI 25-MAY-1989 UM13 AENSLF ND 100.000 UGI 25-MAY-1989 UM13 AENSLF ND 3.000 UGI 25-MAY-1989 UM13 AENSLF ND 0.050 UGI |
| 25-MAY-1989 UM13 2CLF ND 10.000 UGI 25-MAY-1989 UM13 2CNAP LT 2.070 UGI 25-MAY-1989 UM13 2NP ND 50.000 UGI 25-MAY-1989 UM13 33DCBD ND 20.000 UGI 25-MAY-1989 UM13 46DN2C ND 50.000 UGI 25-MAY-1989 UM13 4BRPPE ND 10.000 UGI 25-MAY-1989 UM13 4CL3C ND 10.000 UGI 25-MAY-1989 UM13 4CLPPE ND 10.000 UGI 25-MAY-1989 UM13 4CLPPE ND 10.000 UGI 25-MAY-1989 UM13 ANP ND 50.000 UGI 25-MAY-1989 UM13 ANP ND 50.000 UGI 25-MAY-1989 UM13 ANP ND 50.000 UGI 25-MAY-1989 UM13 ANP ND 3.000 UGI 25-MAY-1989 UM13 ANP ND 3.000 UGI 25-MAY-1989 UM13 ANP ND 100.000 UGI 25-MAY-1989 UM13 ANP ND 100.000 UGI 25-MAY-1989 UM13 ANP ND 100.000 UGI 25-MAY-1989 UM13 ANNO ND 100.000 UGI 25-MAY-1989 UM13 ANNON ND 100.000 UGI |
| 25-MAY-1989 UM13 2CNAP LT 2.070 UGI 25-MAY-1989 UM13 2NP ND 50.000 UGI 25-MAY-1989 UM13 33DCBD ND 20.000 UGI 25-MAY-1989 UM13 46DN2C ND 50.000 UGI 25-MAY-1989 UM13 4BRPPE ND 10.000 UGI 25-MAY-1989 UM13 4CL3C ND 10.000 UGI 25-MAY-1989 UM13 4CLPPE ND 10.000 UGI 25-MAY-1989 UM13 4CLPPE ND 10.000 UGI 25-MAY-1989 UM13 4NP ND 50.000 UGI 25-MAY-1989 UM13 ABHC ND 3.000 UGI 25-MAY-1989 UM13 ABHC ND 3.000 UGI 25-MAY-1989 UH09 ABHC ND 0.050 UGI 25-MAY-1989 99 ACROLN ND 100.000 UGI 25-MAY-1989 99 ACRYLO ND 100.000 UGI 25-MAY-1989 UM13 AENSLF ND 3.000 UGI 25-MAY-1989 UM13 AENSLF ND 5.450 UGI 25-MAY-1989 UM13 ALDRN LT 5.780 UGI 25-MAY-1989 UM13 ALDRN LT 5.780 UGI 25-MAY-1989 UM13 ALDRN LT 5.780 UGI 25-MAY-1989 UM13 ALDRN LT 0.022 UGI 25-MAY-1989 UM13 ANAPNE LT 1.260 UGI |
| 25-MAY-1989 UM13 2NP ND 50.000 UGI 25-MAY-1989 UM13 33DCBD ND 20.000 UGI 25-MAY-1989 UM13 46DN2C ND 50.000 UGI 25-MAY-1989 UM13 4BRPPE ND 10.000 UGI 25-MAY-1989 UM13 4CL3C ND 10.000 UGI 25-MAY-1989 UM13 4CLPPE ND 10.000 UGI 25-MAY-1989 UM13 4NP ND 50.000 UGI 25-MAY-1989 UM13 ABHC ND 3.000 UGI 25-MAY-1989 UM13 ABHC ND 3.000 UGI 25-MAY-1989 UH09 ABHC ND 0.050 UGI 25-MAY-1989 99 ACROLN ND 100.000 UGI 25-MAY-1989 99 ACRYLO ND 100.000 UGI 25-MAY-1989 UM13 AENSLF ND 3.000 UGI 25-MAY-1989 UM13 AENSLF ND 0.050 UGI 25-MAY-1989 UM13 ALDRN LT 5.450 UGI 25-MAY-1989 UM13 ALDRN LT 5.780 UGI 25-MAY-1989 UM13 ALDRN LT 5.780 UGI 25-MAY-1989 UM13 ALDRN LT 0.022 UGI 25-MAY-1989 UM13 ANAPNE LT 1.260 UGI |
| 25-MAY-1989 UM13 33DCBD ND 20.000 UGI 25-MAY-1989 UM13 46DN2C ND 50.000 UGI 25-MAY-1989 UM13 4BRPPE ND 10.000 UGI 25-MAY-1989 UM13 4CL3C ND 10.000 UGI 25-MAY-1989 UM13 4CLPPE ND 10.000 UGI 25-MAY-1989 UM13 4NP ND 50.000 UGI 25-MAY-1989 UM13 ABHC ND 3.000 UGI 25-MAY-1989 UH09 ABHC ND 0.050 UGI 25-MAY-1989 99 ACROLN ND 100.000 UGI 25-MAY-1989 99 ACRYLO ND 100.000 UGI 25-MAY-1989 UM13 AENSLF ND 3.000 UGI 25-MAY-1989 UH09 AENSLF ND 0.050 UGI 25-MAY-1989 UM13 ALDRN LT 5.450 UGI |
| 25-MAY-1989 UM13 46DN2C ND 50.000 UGI 25-MAY-1989 UM13 4BRPPE ND 10.000 UGI 25-MAY-1989 UM13 4CL3C ND 10.000 UGI 25-MAY-1989 UM13 4CLPPE ND 10.000 UGI 25-MAY-1989 UM13 4NP ND 50.000 UGI 25-MAY-1989 UM13 ABHC ND 3.000 UGI 25-MAY-1989 UH09 ABHC ND 0.050 UGI 25-MAY-1989 99 ACROLN ND 100.000 UGI 25-MAY-1989 99 ACRYLO ND 100.000 UGI 25-MAY-1989 UM13 AENSLF ND 3.000 UGI 25-MAY-1989 UH09 AENSLF ND 0.050 UGI 25-MAY-1989 UM13 ALDRN LT 5.450 UGI 25-MAY-1989 UM13 ALDRN LT 5.780 UGI < |
| 25-MAY-1989 UM13 4BRPPE ND 10.000 UGI 25-MAY-1989 UM13 4CL3C ND 10.000 UGI 25-MAY-1989 UM13 4CLPPE ND 10.000 UGI 25-MAY-1989 UM13 4NP ND 50.000 UGI 25-MAY-1989 UM13 ABHC ND 3.000 UGI 25-MAY-1989 UH09 ABHC ND 0.050 UGI 25-MAY-1989 99 ACROLN ND 100.000 UGI 25-MAY-1989 99 ACRYLO ND 100.000 UGI 25-MAY-1989 UM13 AENSLF ND 3.000 UGI 25-MAY-1989 UH09 AENSLF ND 0.050 UGI 25-MAY-1989 UM13 ALDRN LT 5.450 UGI 25-MAY-1989 UM13 ALDRN LT 5.780 UGI 25-MAY-1989 UM13 ANAPNE LT 1.260 UGI |
| 25-MAY-1989 UM13 4CL3C ND 10.000 UGI 25-MAY-1989 UM13 4CLPPE ND 10.000 UGI 25-MAY-1989 UM13 4NP ND 50.000 UGI 25-MAY-1989 UM13 ABHC ND 3.000 UGI 25-MAY-1989 UH09 ABHC ND 0.050 UGI 25-MAY-1989 99 ACROLN ND 100.000 UGI 25-MAY-1989 99 ACRYLO ND 100.000 UGI 25-MAY-1989 UM13 AENSLF ND 3.000 UGI 25-MAY-1989 UH09 AENSLF ND 0.050 UGI 25-MAY-1989 UM13 ALDRN LT 5.450 UGI 25-MAY-1989 UM13 ALDRN LT 5.780 UGI 25-MAY-1989 UH09 ALDRN LT 0.022 UGI 25-MAY-1989 UM13 ANAPNE LT 1.260 UGI |
| 25-MAY-1989 UM13 4CLPPE ND 10.000 UGI 25-MAY-1989 UM13 4NP ND 50.000 UGI 25-MAY-1989 UM13 ABHC ND 3.000 UGI 25-MAY-1989 UH09 ABHC ND 0.050 UGI 25-MAY-1989 99 ACROLN ND 100.000 UGI 25-MAY-1989 99 ACRYLO ND 100.000 UGI 25-MAY-1989 UM13 AENSLF ND 3.000 UGI 25-MAY-1989 UH09 AENSLF ND 0.050 UGI 25-MAY-1989 UM13 ALDRN LT 5.450 UGI 25-MAY-1989 UH09 ALDRN LT 5.780 UGI 25-MAY-1989 UH09 ALDRN LT 0.022 UGI 25-MAY-1989 UM13 ANAPNE LT 1.260 UGI |
| 25-MAY-1989 UM13 4NP ND 50.000 UGI 25-MAY-1989 UM13 ABHC ND 3.000 UGI 25-MAY-1989 UH09 ABHC ND 0.050 UGI 25-MAY-1989 99 ACROLN ND 100.000 UGI 25-MAY-1989 99 ACRYLO ND 100.000 UGI 25-MAY-1989 UM13 AENSLF ND 3.000 UGI 25-MAY-1989 UH09 AENSLF ND 0.050 UGI 25-MAY-1989 UM13 ALDRN LT 5.450 UGI 25-MAY-1989 UH09 ALDRN LT 5.780 UGI 25-MAY-1989 UH09 ALDRN LT 0.022 UGI 25-MAY-1989 UM13 ANAPNE LT 1.260 UGI |
| 25-MAY-1989 UM13 ABHC ND 3.000 UGI 25-MAY-1989 UH09 ABHC ND 0.050 UGI 25-MAY-1989 99 ACROLN ND 100.000 UGI 25-MAY-1989 99 ACRYLO ND 100.000 UGI 25-MAY-1989 UM13 AENSLF ND 3.000 UGI 25-MAY-1989 UH09 AENSLF ND 0.050 UGI 25-MAY-1989 SSO6 AG LT 5.450 UGI 25-MAY-1989 UM13 ALDRN LT 5.780 UGI 25-MAY-1989 UH09 ALDRN LT 0.022 UGI 25-MAY-1989 UM13 ANAPNE LT 1.260 UGI |
| 25-MAY-1989 UH09 ABHC ND 0.050 UGI 25-MAY-1989 99 ACROLN ND 100.000 UGI 25-MAY-1989 99 ACRYLO ND 100.000 UGI 25-MAY-1989 UM13 AENSLF ND 3.000 UGI 25-MAY-1989 UH09 AENSLF ND 0.050 UGI 25-MAY-1989 SS06 AG LT 5.450 UGI 25-MAY-1989 UM13 ALDRN LT 5.780 UGI 25-MAY-1989 UH09 ALDRN LT 0.022 UGI 25-MAY-1989 UM13 ANAPNE LT 1.260 UGI |
| 25-MAY-1989 99 ACROLN ND 100.000 UGI 25-MAY-1989 99 ACRYLO ND 100.000 UGI 25-MAY-1989 UM13 AENSLF ND 3.000 UGI 25-MAY-1989 UH09 AENSLF ND 0.050 UGI 25-MAY-1989 SS06 AG LT 5.450 UGI 25-MAY-1989 UM13 ALDRN LT 5.780 UGI 25-MAY-1989 UH09 ALDRN LT 0.022 UGI 25-MAY-1989 UM13 ANAPNE LT 1.260 UGI |
| 25-MAY-1989 99 ACRYLO ND 100.000 UGI 25-MAY-1989 UM13 AENSLF ND 3.000 UGI 25-MAY-1989 UH09 AENSLF ND 0.050 UGI 25-MAY-1989 SS06 AG LT 5.450 UGI 25-MAY-1989 UM13 ALDRN LT 5.780 UGI 25-MAY-1989 UH09 ALDRN LT 0.022 UGI 25-MAY-1989 UM13 ANAPNE LT 1.260 UGI |
| 25-MAY-1989 UM13 AENSLF ND 3.000 UGI 25-MAY-1989 UH09 AENSLF ND 0.050 UGI 25-MAY-1989 SS06 AG LT 5.450 UGI 25-MAY-1989 UM13 ALDRN LT 5.780 UGI 25-MAY-1989 UH09 ALDRN LT 0.022 UGI 25-MAY-1989 UM13 ANAPNE LT 1.260 UGI |
| 25-MAY-1989 UH09 AENSLF ND 0.050 UGI 25-MAY-1989 SS06 AG LT 5.450 UGI 25-MAY-1989 UM13 ALDRN LT 5.780 UGI 25-MAY-1989 UH09 ALDRN LT 0.022 UGI 25-MAY-1989 UM13 ANAPNE LT 1.260 UGI |
| 25-MAY-1989 SS06 AG LT 5.450 UGI 25-MAY-1989 UM13 ALDRN LT 5.780 UGI 25-MAY-1989 UH09 ALDRN LT 0.022 UGI 25-MAY-1989 UM13 ANAPNE LT 1.260 UGI |
| 25-MAY-1989 UM13 ALDRN LT 5.780 UG1 25-MAY-1989 UH09 ALDRN LT 0.022 UG1 25-MAY-1989 UM13 ANAPNE LT 1.260 UG1 |
| 25-MAY-1989 UHO9 ALDRN LT 0.022 UG1 25-MAY-1989 UM13 ANAPNE LT 1.260 UG1 |
| 25-MAY-1989 UM13 ANAPNE LT 1.260 UG |
| The same are a second and a second a second and a second |
| 25-MAY-1989 UM13 ANAPYL LT 3.300 UGI |
| |
| 25-MAY-1989 UM13 ANTHRC LT 1.110 UG1 |
| 25-MAY-1989 SD11 AS LT 4.190 UGI |
| 25-MAY-1989 UM13 B2CEXM ND 10.000 UG1 |
| 25-MAY-1989 UM13 B2CIPE ND 10.000 UG1 |
| 25-MAY-1989 UM13 B2CLEE LT 1.500 UG1 |
| 25-MAY-1989 UM13 B2EHP LT 32.700 UG1 |
| 25-MAY-1989 UM13 BAANTR LT 0.906 UG1 |
| 25-MAY-1989 UM13 BAPYR LT 8.290 UG1 |
| 25-MAY-1989 UM13 BBFANT LT 2.650 UG1 |
| 25-MAY-1989 UM13 BBHC LT 3.170 UG |
| 25-MAY-1989 UHO9 BBHC ND 0.050 UG |
| 25-MAY-1989 UM13 BBZP ND 10.000 UG |
| 25-MAY-1989 SS06 BE LT 2.860 UG |
| 25-MAY-1989 UM13 BENSLF ND 6.000 UG |
| 25-MAY-1989 UH09 BENSLF ND 0.100 UG |
| 25-MAY-1989 UM13 BENZID ND 50.000 UG |
| 25-MAY-1989 UM13 BGHIPY LT 64.600 UG |

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| SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------|----------------|----------|------|---------------|-------|
| 25-MAY-1989 | UM13 | BKFANT | LT | 3.280 | UGL |
| 25-MAY-1989 | 99 | BRDCLM | ND | 5.000 | UGL |
| 25-MAY-1989 | UM13 | BZALC | ND | 0.100 | UGL |
| 25-MAY-1989 | 99 | C13DCP | LT | 1.800 | UGL |
| 25-MAY-1989 | 99 | C2H3CL | LT | 13.000 | UGL |
| 25-MAY-1989 | 99 | C2H5CL | LT | 6.900 | UGL |
| 25-MAY-1989 | 99 | С6Н6 | LT | 1.700 | UGL |
| 25-MAY-1989 | 99 | CCL4 | LT | 1.000 | UGL |
| 25-MAY-1989 | SS06 | CD | | 6.010 | UGL |
| 25-MAY-1989 | 99 | CH2CL2 | LT | 23.000 | UGL |
| 25-MAY-1989 | 99 | CH3BR | ND | 10.000 | UGL |
| 25-MAY-1989 | 99 | CH3CL | LT | 1.800 | UGL |
| 25-MAY-1989 | 99 | CHBR3 | LT | 3.700 | UGL |
| 25-MAY-1989 | 99 | CHCL3 | LT | 1.000 | UGL |
| 25-MAY-1989 | UM13 | CHRY | LT | 1.150 | UGL |
| 25-MAY-1989 | UM13 | CL6BZ | LT | 2.850 | UGL |
| 25-MAY-1989 | UM13 | CL6CP | ПN | 10.000 | UGL |
| 25-MAY-1989 | UM13 | CL6ET | LT | 13.300 | UGL |
| 25-MAY-1989 | 99 | CLC6H5 | LT | 1.200 | UGL |
| 25-MAY-1989 | UM13 | CLDAN | LT | 10.200 | UGL |
| 25-MAY-1989 | UH09 | CLDAN | LT | 0.046 | UGL |
| 25-MAY-1989 | SS06 | CR | LT | 4.440 | UGL |
| 25-MAY-1989 | SS06 | CU | LT | 6.200 | UGL |
| 25-MAY-1989 | TF19 | CYN | LT | 5.500 | UGL |
| 25-MAY-1989 | UM13 | DBAHA | LT | 12.300 | UGL |
| 25-MAY-1989 | UM13 | DBHC | LT | 621.000 | UGL |
| 25-MAY-1989 | UH09 | DBHC | ND | 0.050 | UGL |
| 25-MAY-1989 | 99 | DBRCLM | LT | 1.800 | UGL |
| 25-MAY-1989 | UM13 | DEP | ND | 10.000 | UGL |
| 25-MAY-1989 | UM13 | DLDRN | LT | 2.550 | UGL |
| 25-MAY-1989 | UHO9 | DLDRN | LT | 0.005 | UGL |
| 25-MAY-1989 | UM13 | DMP | ND | 10.000 | UGL |
| 25-MAY-1989 | UM13 | DNBP | ND | 10.000 | UGL |
| 25-MAY-1989 | UM13 | DNOP | LT | 21.400 | UGL |
| 25-MAY-1989 | UM13 | ENDRN | LT | 34.200 | UGL |
| 25-MAY-1989 | UHO9 | ENDRN | ND | 0.100 | UGL |
| 25-MAY-1989 | UHO9 | ENDRNK | ND | 0.100 | UGL |
| 25-MAY-1989 | UM13 | ESFS04 | ND | 6.000 | UGL |
| 25-MAY-1989 | UHO9 | ESFS04 | ND | 0.100 | UGL |
| 25-MAY-1989 | 99 | ETC6H5 | LT | 1.400 | UGL |
| 25-MAY-1989 | UM13 | FANT | LT | 1.150 | UGL |
| 25-MAY-1989 | UM13 | FLRENE | ND | 10.000 | UGL |
| 25-MAY-1989 | UM13 | HCBD | LT | 7.890 | UGL |
| 25-MAY-1989 | 99 | HG | | 0.100 | UGL |
| 25-MAY-1989 | UM13 | HPCL | LT | 4.910 | UGL |

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| SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------|----------------|----------|------|---------------|-------|
| 25-MAY-1989 | UH09 | HPCL | | 0.118 | UGL |
| 25-MAY-1989 | UM13 | HPCLE | LT | 6.440 | UGL |
| 25-MAY-1989 | UH09 | HPCLE | LT | 0.086 | UGL |
| 25-MAY-1989 | UM13 | ICDPYR | LT | 128.000 | UGL |
| 25-MAY-1989 | UHO9 | ISODR | LT | 0.041 | UGL |
| 25-MAY-1989 | UM13 | ISOPHR | ND | 0.100 | UGL |
| 25-MAY-1989 | UM13 | LIN | LT | 26.000 | UGL |
| 25-MAY-1989 | UHO9 | LIN | LT | 0.029 | UGL |
| 25-MAY-1989 | 99 | MEC6H5 | LT | 1.800 | UGL |
| 25-MAY-1989 | UHO9 | MEXCLR | ND | 0.500 | UGL |
| 25-MAY-1989 | UM13 | NAP | LT | 3.510 | UGL |
| 25-MAY-1989 | UM13 | NB | ND | 10.000 | UGL |
| 25-MAY-1989 | SS06 | NI | LT | 15.300 | UGL |
| 25-MAY-1989 | UM13 | NNDMEA | ND | 10.000 | UGL |
| 25-MAY-1989 | UM13 | NNDNPA | LT | 5.630 | UGL |
| 25-MAY-1989 | UM13 | NNDPA | ND | 6.700 | UGL |
| 25-MAY-1989 | SD11 | PB | LT | 1.700 | UGL |
| 25-MAY-1989 | UM13 | PCB016 | ND | 30.000 | UGL |
| 25-MAY-1989 | UHO9 | PCB016 | LT | 0.133 | UGL |
| 25-MAY-1989 | UM13 | PCB221 | ND | 30.000 | UGL |
| 25-MAY-1989 | UHO9 | PCB221 | ND | 0.500 | UGL |
| 25-MAY-1989 | UM13 | PCB232 | ND | 30.000 | UGL |
| 25-MAY-1989 | UHO9 | PCB232 | ND | 0.500 | UGL |
| 25-MAY-1989 | UM13 | PCB242 | ND | 30.000 | UGL |
| 25-MAY-1989 | UHO9 | PCB242 | ND | 0.500 | UGL |
| 25-MAY-1989 | UM13 | PCB248 | ND | 30.000 | UGL |
| 25-MAY-1989 | UHO9 | PCB248 | ND | 0.500 | UGL |
| 25-MAY-1989 | UM13 | PCB254 | ND | 60.000 | UGL |
| 25-MAY-1989 | UHO9 | PCB254 | ND | 1.000 | UGL |
| 25-MAY-1989 | UM13 | PCB260 | ND | 60.000 | UGL |
| 25-MAY-1989 | UHO9 | PCB260 | LT | 0.087 | UGL |
| 25-MAY-1989 | UM13 | PCP | ND | 50.000 | UGL |
| 25-MAY-1989 | UM13 | PHANTR | LT | 0.759 | UGL |
| 25-MAY-1989 | UM13 | PPDDD | LT | 5.610 | UGL |
| 25-MAY-1989 | UHO9 | PPDDD | LT | 0.013 | UGL |
| 25-MAY-1989 | UM13 | PPDDE | LT | 11.200 | UGL |
| 25-MAY-1989 | UHO9 | PPDDE | LT | 0.022 | UGL |
| 25-MAY-1989 | UM13 | PPDDT | LT | 5.070 | UGL |
| 25-MAY-1989 | UH09 | PPDDT | LT | 0.037 | UGL |
| 25-MAY-1989 | UM13 | PYR | LT | 9.380 | UGL |
| 25-MAY-1989 | SD11 | SB | LT | 2.500 | UGL |
| 25-MAY-1989 | SD11 | SE | LT | 6.940 | UGL |
| 25-MAY-1989 | 99 | TCLEA | LT | 7.100 | UGL |
| 25-MAY-1989 | 99 | TCLEE | LT | 2.300 | UGL |
| 25-MAY-1989 | SS06 | TL | LT | 59.900 | UGL |

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| SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------------------|----------------|--------------|-------|----------------|------------|
| 25-MAY-1989 | 99 | TRCLE | LT | 1.000 | UGL |
| 25-MAY-1989 | UM13 | TXPHEN | ND | 60.000 | UGL |
| 25-MAY-1989 | UH09 | TXPHEN | ND | 1.000 | UGL |
| 25-MAY-1989 | UM13 | UNK536 | 110 | 10.900 | UGL |
| 25-MAY-1989 | UM13 | UNK538 | | 14.300 | UGL |
| 25-MAY-1989 | UM13 | UNK541 | | 38.700 | UGL |
| 25-MAY-1989 | UM13 | UNK542 | | 7.960 | UGL |
| 25-MAY-1989 | UM13 | UNK543 | | 7.710 | UGL |
| 25-MAY-1989 | UM13 | UNK543 | | 6.220 | UGL |
| 25-MAY-1989 | UM13 | UNK544 | | 19.500 | UGL |
| 25-MAY-1989 | SS06 | ZN | | 7.420 | UGL |
| | 5 | Site: METHOD | BLANK | | |
| 17-JUL-1989 | 99 | 111TCE | LT | 1.000 | UGL |
| 17-JUL-1989 | 99 | 111TCE | LT | 0.006 | UGG |
| 17-JUL-1989 | 99 | 111TCE | LT | 0.006 | UGG |
| 17-JUL-1989 | 99 | 112TCE | LT | 1.700 | UGL |
| 17-JUL-1989 | 99 | 112TCE | LT | 0.003 | UGG |
| 17-JUL-1989 | 99 | 112TCE | LT | 0.003 | UGG |
| 17-JUL-1989 | 99 | 11DCE | LT | 6.800 | UGL |
| 17-JUL-1989 | 99 | 11DCE | LT | 0.012 | UGG |
| 17-JUL-1989 | 99 | 11DCE | LT | 0.012 | UGG |
| 17-JUL-1989 | 99 | 11DCLE | LT | 2.700 | UGL |
| 17-JUL-1989 | 99 | 11DCLE | LT | 0.007 | UGG |
| 17-JUL-1989 | 99 | 11DCLE | LT | 0.007 | UGG |
| 17-JUL-1989 | 99 | 124TCB | LT | 0.170 | UGG |
| 17-JUL-1989 | UM13 | 124TCB | LT | 4.420 | UGL |
| 17-JUL-1989 | 99 | 12DCE | LT | 2.200 | UGL |
| 17-JUL-1989 | 99 | 12DCE | LT | 0.006 | UGG |
| 17-JUL-1989 | 99 | 12DCE | LT | 0.006 | UGG |
| 17-JUL-1989 | 99 | 12DCLB | LT | 0.330 | UGG |
| 17-JUL-1989 | UM13 | 12DCLB | LT | 7.320 | UGL |
| 17-JUI-1989 | 99 | 12DCLE | LT | 1.000 | UGL |
| 17-JUL-1989 | 99 | 12DCLE | LT | 0.005 | UGG |
| 17-JUL-1989 | 99 | 12DCLE | LT | 0.005 | UGG |
| 17-JUL-1989 | 99 | 12DCLP | LT | 3.200 | UGL |
| 17-JUL-1989 | 99 | 12DCLP | LT | 0.010 | UGG |
| 17-JUL-1989 | 99 | 12DCLP | LT | 0.010 | UGG |
| 17-JUL-1989 | 99 | 13DCLB | LT | 0.300 | UGG |
| 17-JUL-1989 | UM13 | 13DCLB | LT | 8.270 | UGL |
| 17-JUL-1989 17-JUL-1989 | 99 | 14DCLB | LT | 0.290 7.970 | UGG |
| 17-JUL-1989 17-JUL-1989 | UM13 | 14DCLB | LT | | UGL |
| 17-JUL-1989 17-JUL-1989 | 99 | 246TCP | ND | 0.330 | UGG UGL |
| 11-200-1303 | UM13 | 246TCP | ND | 10.000 | UGL |

Site: METHOD BLANK

| SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------------------|----------------|----------|------|------------------|-------|
| 17-JUL-1989 | 99 | 24DCLP | ND | 0.330 | UGG |
| 17-JUL-1989 | UM13 | 24DCLP | ND | 10.000 | UGL |
| 17-JUL-1989 | 99 | 24DMPN | ND | 0.330 | UGG |
| 17-JUL-1989 | UM13 | 24DMPN | ND | 10.000 | UGL |
| 17-JUL-1989 | 99 | 24DNP | ND | 2.000 | UGG |
| 17-JUL-1989 | UM13 | 24DNP | ND | 50.000 | UGL |
| 17-JUL-1989 | 99 | 24DNT | LT | 0.460 | UGG |
| 17-JUL-1989 | UM13 | 24DNT | LT | 5.840 | UGL |
| 17-JUL-1989 | 99 | 26DNT | LT | 0.200 | UGG |
| 17-JUL-1989 | UM13 | 26DNT | LT | 5.520 | UGL |
| 17-JUL-1989 | 99 | 2CLEVE | LT | 1.600 | UGL |
| 17-JUL-1989 | 99 | 2CLEVE | LT | 0.005 | UGG |
| 17-JUL-1989 | 99 | 2CLEVE | LT | 0.005 | UGG |
| 17-JUL-1989 | 99 | 2CLP | ND | 0.330 | UGG |
| 17-JUL-1989 | UM13 | 2CLP | ND | 10.000 | UGL |
| 17-JUL-1989 | 99 | 2CNAP | LT | 0.320 | UGG |
| 17-JUL-1989 | UM13 | 2CNAP | LT | 2.070 | UGL |
| 17-JUL-1989 | 99 | 2NP | ND | 0.330 | UGG |
| 17-JUL-1989 | UM13 | 2NP | ND | 50.000 | UGL |
| 17-JUL-1989 | 99 | 33DCBD | ND | 0.700 | UGG |
| 17-JUL-1989 | UM13 | 33DCBD | ND | 20.000 | UGL |
| 17-JUL-1989 | 99 | 46DN2C | ND | 2.000 | UGG |
| 17-JUL-1989 | UM13 | 46DN2C | ND | 50.000 | UGL |
| 17-JUL-1989 | 99 | 4BRPPE | ND | 0.330 | UGG |
| 17-JUL-1989 | UM13 | 4BRPPE | ND | 10.000 | UGL |
| 17-JUL-1989 | 99 | 4CL3C | ND | 0.290 | UGG |
| 17-JUL-1989 | UM13 | 4CL3C | ND | 10.000 | UGL |
| 17-JUL-1989 | 99 | 4CLPPE | ND | 0.330 | UGG |
| 17-JUL-1989 | UM13 | 4CLPPE | ND | 10.000 | UGL |
| 17-JUL-1989 | 99 | 4NP | ND | 2.000 | UGG |
| 17-JUL-1989 | UM13 | 4NP | ND | 50.000 | UGL |
| 17-JUL-1989 | 99 | ABHC | ND | 8000.000 | UGG |
| 17-JUL-1989 | 99 | ABHC | ND | 0.500 | UGG |
| 17-JUL-1989 | UM13 | ABHC | ND | 3.000 | UGL |
| 17-JUL-1989 | UH09 | ABHC | ND | 0.050 | UGL |
| 17-JUL-1989 | LHO8 | ABHC | ND | 0.008 | UGG |
| 17-JUL-1989 | 99 | ACROLN | ND | 100.000 | UGL |
| 17-JUL-1989 | 99 | ACROLN | ND | 0.100 | UGG |
| 17-JUL-1989 | 99 00 | ACROLN | ND | 0.100 100.000 | UGG |
| 17-JUL-1989 | 99 | ACRYLO | ND | | UGL |
| 17-JUL-1989 | 99 | ACRYLO | ND | 0.100 | UGG |
| 17-JUL-1989 | 99 00 | ACRYLO | ND | 0.100 | UGG |
| 17-JUL-1989 17-JUL-1989 | 99 | AENSLF | ND | 0.008 | UGG |
| | 99 | AENSLF | ND | 0.500 | UGG |
| 17-JUL-1989 | UM13 | aenslf | ND | 3.000 | UGL |

Site: METHOD BLANK

| SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------------------|----------------|----------|------|---------------|-------|
| 17-JUL-1989 | UH09 | AENSLF | ND | 0.050 | UGL |
| 17-JUL-1989 | LH08 | AENSLF | ND | 0.008 | UGG |
| 17-JUL-1989 | JS05 | AG | LT | 0.953 | UGG |
| 17-JUL-1989 | SS06 | AG | LT | 5.450 | UGL |
| 17-JUL-1989 | JS05 | AG | LT | 0.783 | UGG |
| 17-JUL-1989 | 99 | ALDRN | LT | 0.011 | UGG |
| 17-JUL-1989 | 99 | ALDRN | LT | 0.420 | UGG |
| 17-JUL-1989 | UM13 | ALDRN | LT | 5.780 | UGL |
| 17-JUL-1989 | UH09 | ALDRN | LT | 0.022 | UGL |
| 17-JUL-1989 | LHO8 | ALDRN | LT | 0.022 | UGG |
| 17-JUL-1989 | 99 | ANAPNE | LT | 0.340 | UGG |
| 17-JUL-1989 | ÚM13 | ANAPNE | LT | 1.260 | UGL |
| 17-JUL-1989 | 99 | ANAPYL | LT | 0.310 | UGG |
| 17-JUL-1989 | UM13 | ANAPYL | LT | 3.300 | UGL |
| 17-JUL-1989 | UM13 | ANTHRC | LT | 1.110 | UGL |
| 17-JUL-1989 17-JUL-1989 | 99 | ANTRC | LT | 0.290 | UGE |
| 17-JUL-1989 17-JUL-1989 | JD11 | | PI | 4.650 | UGG |
| | | AS | t m | | UGL |
| 17-JUL-1989 | SD11 | AS | LT | 4.190 | |
| 17-JUL-1989 | JD11 | AS | MD | 4.050 | UGG |
| 17-JUL-1989 | 99 | B2CEXM | ND | 0.330 | UGG |
| 17-JUL-1989 | UM13 | B2CEXM | ND | 10.000 | UGL |
| 17-JUL-1989 | 99 | B2CIPE | ND | 0.330 | UGG |
| 17-JUL-1989 | UM13 | B2CIPE | ND | 10.000 | UGL |
| 17-JUL-1989 | 99 | B2CLEE | LT | 0.380 | UGG |
| 17-JUL-1989 | UM13 | B2CLEE | LT | 1.500 | UGL |
| 17-JUL-1989 | 99 | B2EHP | | 9.300 | UGG |
| 17-JUL-1989 | UM13 | B2EHP | LT | 32.700 | UGL |
| 17-JUL-1989 | 99 | BAANTR | LT | 0.270 | UGG |
| 17-JUL-1989 | UM13 | BAANTR | LT | 0.906 | UGL |
| 17-JUL-1989 | 99 | BAPYR | LT | 0.160 | UGG |
| 17-JUL-1989 | UM13 | BAPYR | LT | 8.290 | UGL |
| 17-JUL-1989 | 99 | BBFANT | LT | 0.250 | UGG |
| 17-JUL-1989 | UM13 | BBFANT | LT | 2.650 | UGL |
| 17-JUL-1989 | 99 | ВВНС | ND | 8000.000 | UGG |
| 17-JUL-1989 | 99 | BBHC | LT | 0.330 | UGG |
| 17-JUL-1989 | UM13 | BBHC | LT | 3.170 | UGL |
| 17-JUL-1989 | UH09 | BBHC | ND | 0.050 | UGL |
| 17-JUL-1989 | LH08 | BBHC | ND | 0.008 | UGG |
| 17-JUL-1989 | 99 | BBZP | ND | 0.330 | UGG |
| 17-JUL-1989 | UM13 | BBZP | ND | 10.000 | UGL |
| 17-JUL-1989 | JS05 | BE | | 0.608 | UGG |
| 17-JUL-1989 | SS06 | BE | LT | 2.860 | UGL |
| 17-JUL-1989 | JS05 | BE | | 0.487 | UGG |
| 17-JUL-1989 | 99 | BENSLF | ND | 0.016 | UGG |
| 17-JUL-1989 | 99 | BENSLF | ND | 1.000 | UGG |

Site: METHOD BLANK

| SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------------------|----------------|--------------------|----------|----------------|------------|
| 17-JUL-1989 | UM13 | BENSLF | ND | 6.000 | UGL |
| 17-JUL-1989 | UHO9 | BENSLF | ND | 0.100 | UGL |
| 17-JUL-1989 | LH08 | BENSLF | ND | 0.016 | UGG |
| 17-JUL-1989 | 99 | BENZID | ND | 1.600 | UGG |
| 17-JUL-1989 | UM13 | BENZID | ND | 50.000 | UGL |
| 17-JUL-1989 | 99 | BGHIPY | LT | 0.520 | UGG |
| 17-JUL-1989 | UM13 | BGHIPY | LT | 64.600 | UGL |
| 17-JUL-1989 | 99 | BKFANT | LT | 0.220 | UGG |
| 17-JUL-1989 | UM13 | BKFANT | LT | 3.280 | UGL |
| 17-JUL-1989 | 99 | BRDCLM | ND | 5.000 | UGL |
| 17-JUL-1989 | 99 | BRDCLM | ND | 5.000 | UGG |
| 17-JUL-1989 | 99 | BRDCLM | ND | 5.000 | UGG |
| 17~JUL-1989 | 99 | BZALC | ND | 0.330 | UGG |
| 17-JUL-1989 | UM13 | BZALC | ND | 0.100 | UGL |
| 17-JUL-1989 | 99 | C13DCP | LT | 1.800 | UGL |
| 17-JUL-1989 | 99 | C13DCP | LT | 0.003 | UGG |
| 17-JUL-1989 | 99 | C13DCP | LT | 0.003 | UGG |
| 17-JUL-1989 | 99 | C2H3CL | LT | 13.000 | UGL |
| 17-JUL-1989 | 99 | C2H3CL | LT | 0.008 | UGG |
| 17-JUL-1989 | 99 | C2H3CL | LT | 0.008 | UGG |
| 17-JUL-1989 17-JUL-1989 | 99 | C2H5CL | LT | 6.900 | UGL |
| | 99 | C2H5CL | LT | 0.010 | UGG |
| 17-JUL-1989 | 99 | C2H5CL | LT | 0.010 | UGG |
| 17-JUL-1989 | 99 99 | C6H6 | LT | 1.700 | UGL |
| 17-JUL-1989 17-JUL-1989 | 99 99 | C6H6 | LT | 0.005 | UGG |
| 17-JUL-1989 17-JUL-1989 | 99 | C6H6 | LT | 0.005 | UGG |
| 17-JUL-1989 | 99 | CCL4 CCL4 | LT LT | 1.000 | UGL |
| 17-JUL-1989 | 99 | | LT | 0.002 | UGG |
| 17-JUL-1989 | JS05 | CCL4 CD | LT | 0.002 1.330 | UGG UGG |
| 17-JUL-1989 | SS06 | CD | LT | 4.390 | UGL |
| 17-JUL-1989 | JS05 | CD | LT | 1.090 | UGG |
| 17-JUL-1989 | 99 | CH2CL2 | LT | 23.000 | UGL |
| 17-JUL-1989 | 99 | CH2CL2 | ND | 0.005 | UGG |
| 17-JUL-1989 | 99 | CH2CL2 | ND | 0.003 | UGG |
| 17-JUL-1989 | 9 <u>9</u> | CH3BR | ND | 10.000 | UGL |
| 17-JUL-1989 | 99 | CH3BR | ND | 0.010 | UGG |
| 17-JUL-1989 | 99 | CH3BR | ND | 0.010 | UGG |
| 17-JUL-1989 | 99 | CH3CL | LT | 1.800 | UGL |
| 17-JUL-1989 | 99 | CH3CL | LT | 0.005 | UGG |
| 17-JUL-1989 | 99 | CH3CL | LT | 0.005 | UGG |
| 17-JUL-1989 | 99 | CHBR3 | LT | 3.700 | UGL |
| 17-JUL-1989 | 99 | CHBR3 | LT | 0.004 | UGG |
| 17-JUL-1989 | 99 | CHBR3 | LT | 0.004 | UGG |
| 17-JUL-1989 | 99 | CHCL3 | | 4.100 | UGL |
| | | · · · - | | | |

Site: METHOD BLANK

| SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------|----------------|----------|------|---------------|-------|
| 17-JUL-1989 | 99 | CHCL3 | LT | 0.015 | UGG |
| 17-JUL-1989 | 99 | CHCL3 | LT | 0.015 | UGG |
| 17-JUL-1989 | 99 | CHRY | LT | 0.190 | UGG |
| 17-JUL-1989 | UM13 | CHRY | LT | 1.150 | UGL |
| 17-JUL-1989 | 99 | CL6BZ | LT | 0.350 | UGG |
| 17-JUL-1989 | UM13 | CL6BZ | LT | 2.850 | UGL |
| 17-JUL-1989 | 99 | CL6CP | ND | 0.330 | UGG |
| 17-JUL-1989 | UM13 | CL6CP | ND | 10.000 | UGL |
| 17-JUL-1989 | 99 | CL6ET | LT | 0.140 | UGG |
| 17-JUL-1989 | UM13 | CL6ET | LT | 13.300 | UGL |
| 17-JUL-1989 | 99 | CLC6H5 | LT | 1.200 | UGL |
| 17-JUL-1989 | 99 | CLC6H5 | LT | 0.002 | UGG |
| 17-JUL-1989 | 99 | CLC6H5 | LT | 0.002 | UGG |
| 17-JUL-1989 | 99 | CLDAN | LT | 0.028 | UGG |
| 17-JUL-1989 | 99 | CLDAN | LT | 0.810 | UGG |
| 17-JUL-1989 | UM13 | CLDAN | LT | 10.200 | UGL |
| 17-JUL-1989 | UHO9 | CLDAN | LT | 0.046 | UGL |
| 17-JUL-1989 | LH08 | CLDAN | LT | 0.032 | UGG |
| 17-JUL-1989 | JS05 | CR | | 15.900 | UGG |
| 17-JUL-1989 | S\$06 | CR | LT | 4.440 | UGL |
| 17-JUL-1989 | JS05 | CR | | 9.640 | UGG |
| 17-JUL-1989 | JS05 | CU | | 21.700 | UGG |
| 17-JUL-1989 | SS06 | CU | | 9.700 | UGL |
| 17-JUL-1989 | JS05 | CU | | 16.700 | UGG |
| 17-JUL-1989 | KF12 | CYN | LT | 22.300 | UGG |
| 17-JUL-1989 | TF19 | CYN | LT | 5.500 | UGL |
| 17-JUL-1989 | KF12 | CYN | LT | 22.300 | UGG |
| 17-JUL-1989 | 99 | DBAHA | LT | 0.570 | UGG |
| 17-JUL-1989 | UM13 | DBAHA | LT | 12.300 | UGL |
| 17-JUL-1989 | 99 | DBHC | ND | 0.008 | UGG |
| 17-JUL-1989 | 99 | DBHC | LT | 0.570 | UGG |
| 17-JUL-1989 | UM13 | DBHC | LT | 621.000 | UGL |
| 17-JUL-1989 | UH09 | DBHC | ND | 0.050 | UGL |
| 17-JUL-1989 | LH08 | DBHC | ND | 0.008 | UGG |
| 17-JUL-1989 | 99 | DBRCLM | LT | 1.800 | UGL |
| 17-JUL-1989 | 99 | DBRCLM | LT | 0.002 | UGG |
| 17-JUL-1989 | 99 | DBRCLM | LT | 0.002 | UGG |
| 17-JUL-1989 | 99 | DEP | ND | 0.330 | UGG |
| 17-JUL-1989 | UM13 | DEP | ND | 10.000 | UGL |
| 17-JUL-1989 | 99 | DLDRN | LT | 0.006 | UGG |
| 17-JUL-1989 | 99 | DLDRN | LT | 0.860 | UGG |
| 17-JUL-1989 | UM13 | DLDRN | LT | 2.550 | UGL |
| 17-JUL-1989 | UH09 | DLDRN | LT | 0.005 | UGL |
| 17-JUL-1989 | LHO8 | DLDRN | LT | 0.008 | UGG |
| 17-JUL-1989 | 99 | DMP | ND | 0.330 | UGG |

Site: METHOD BLANK

| SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------|----------------|----------|------|---------------|-------|
| 17-JUL-1989 | UM13 | DMP | ND | 10.000 | UGL |
| 17-JUL-1989 | 99 | DNBP | ND | 0.330 | UGG |
| 17-JUL-1989 | UM13 | DNBP | ND | 10.000 | UGL |
| 17-JUL-1989 | 99 | DNOP | LT | 0.350 | UGG |
| 17-JUL-1989 | UM13 | DNOP | LT | 21.400 | UGL |
| 17-JUL-1989 | 99 | ENDRN | ND | 0.016 | UGG |
| 17-JUL-1989 | 99 | ENDRN | LT | 0.380 | UGG |
| 17-JUL-1989 | UM13 | ENDRN | LT | 34.200 | UGL |
| 17-JUL-1989 | UH09 | ENDRN | ND | 0.100 | UGL |
| 17-JUL-1989 | LH08 | ENDRN | ND | 0.016 | UGG |
| 17-JUL-1989 | 99 | ENDRNK | ND | 0.016 | UGG |
| 17-JUL-1989 | UH09 | ENDRNK | ND | 0.100 | UGL |
| 17-JUL-1989 | LH08 | ENDRNK | ND | 0.016 | UGG |
| 17-JUL-1989 | 99 | ESFS04 | ND | 0.016 | UGG |
| 17-JUL-1989 | 99 | ESFS04 | ND | 1.000 | UGG |
| 17-JUL-1989 | UM13 | ESFS04 | ND | 6.000 | UGL |
| 17-JUL-1989 | UH09 | ESFS04 | ND | 0.100 | UGL |
| 17-JUL-1989 | LH08 | ESFS04 | ND | 0.016 | UGG |
| 17-JUL-1989 | 99 | ETC6H5 | LT | 1.400 | UGL |
| 17-JUL-1989 | 99 | ETC6H5 | LT | 0.010 | UGG |
| 17-JUL-1989 | 99 | ETC6H5 | LT | 0.010 | UGG |
| 17-JUL-1989 | 99 | FANT | LT | 0.210 | UGG |
| 17-JUL-1989 | UM13 | FANT | LT | 1.150 | UGL |
| 17-JUL-1989 | 99 | FLRENE | ND | 0.330 | UGG |
| 17-JUL-1989 | UM13 | FLRENE | ND | 10.000 | UGL |
| 17-JUL-1989 | 99 | HCBD | LT | 0.290 | UGG |
| 17-JUL-1989 | UM13 | HCBD | LT | 7.890 | UGL |
| 17-JUL-1989 | JB09 | HG | | 0.045 | UGG |
| 17-JUL-1989 | 99 | HG | | 0.110 | UGL |
| 17-JUL-1989 | 99 | HG | | 0.043 | UGG |
| 17-JUL-1989 | 99 | HPCL | LT | 0.013 | UGG |
| 17-JUL-1989 | 99 | HPCL | LT | 0.270 | UGG |
| 17-JUL-1989 | UM13 | HPCL | LT | 4.910 | UGL |
| 17-JUL-1989 | UH09 | HPCL | | 0.118 | UGL |
| 17-JUL-1989 | LHO8 | HPCL | LT | 0.014 | UGG |
| 17-JUL-1989 | 99 | HPCLE | LT | 0.094 | UGG |
| 17-JUL-1989 | 99 | HPCLE | LT | 0.740 | UGG |
| 17-JUL-1989 | UM13 | HPCLE | LT | 6.440 | UGL |
| 17-JUL-1989 | UH09 | HPCLE | LT | 0.086 | UGL |
| 17-JUL-1989 | LH08 | HPCLE | LT | 0.093 | UGG |
| 17-JUL-1989 | 99 | ICDPYR | LT | 0.450 | UGG |
| 17-JUL-1989 | UM13 | ICDPYR | LT | 128.000 | UGL |
| 17-JUL-1989 | 99 | ISODR | LT | 0.120 | UGG |
| 17-JUL-1989 | UH09 | ISODR | LT | 0.041 | UGL |
| 17-JUL-1989 | LH08 | ISODR | LT | 0.140 | UGG |

Site: METHOD BLANK

| SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------------------|----------------|------------|----------|-----------------|------------|
| 17 111 1000 | | TCOPUP | ND | 0.320 | ucc |
| 17-JUL-1989 | 99 | ISOPHR | ND ND | 0.330 | UGG |
| 17-JUL-1989 | UM13 | ISOPHR | | 0.100 | UGL |
| 17-JUL-1989 | 99 | LIN | LT | 0.044 | UGG |
| 17-JUL-1989 | 99 | LIN | LT LT | 0.300 | UGG |
| 17-JUL-1989 | UM13 | LIN | LT | 26.000 0.029 | UGL UGL |
| 17-JUL-1989 | UHO9 LHO8 | LIN LIN | LT | 0.041 | UGG |
| 17-JUL-1989 17-JUL-1989 | 99 | MEC6H5 | LT | 1.800 | UGL |
| 17-JUL-1989 | 99 | MEC6H5 | LT | 0.006 | UGG |
| 17-JUL-1989 | 99 | MEC6H5 | LT | 0.006 | UGG |
| 17-JUL-1989 | 99 | MEXCLR | ND | 0.080 | UGG |
| 17-JUL-1989 | UHO9 | MEXCLR | ND | 0.500 | UGL |
| 17-JUL-1989 | LHO8 | MEXCLR | ND | 0.080 | UGG |
| 17-JUL-1989 | 99 | NAP | LT | 0.280 | UGG |
| 17-JUL-1989 | ÚM13 | NAP | LT | 3.510 | UGL |
| 17-JUL-1989 | 99 | NB | ND | 0.330 | UGG |
| 17-JUL-1989 | UM13 | NB | ND | 10.000 | UGL |
| 17-JUL-1989 | JS05 | NI | | 1.930 | UGG |
| 17-JUL-1989 | SS06 | NI | LT | 15.300 | UGL |
| 17-JUL-1989 | J\$05 | NI | | 11.100 | UGG |
| 17-JUL-1989 | 99 | NNDMEA | ND | 0.330 | UGG |
| 17-JUL-1989 | UM13 | NNDMEA | ND | 10.000 | UGL |
| 17-JUL-1989 | 99 | NNDNPA | LT | 0.110 | UGG |
| 17-JUL-1989 | UM13 | NNDNPA | LŤ | 5.630 | UGL |
| 17-JUL-1989 | 99 | NNDPA | ND | 0.330 | UGG |
| 17-JUL-1989 | UM13 | NNDPA | ND | 6.700 | UGL |
| 17-JUL-1989 | JS05 | PB | LT | 117.000 | UGG |
| 17-JUL-1989 | SD11 | PB | LT | 1.700 | UGL |
| 17-JUL-1989 | JS05 | PB | LT | 96.100 | UGG |
| 17-JUL-1989 | LH08 | PCB016 | LT | 0.092 | UGG |
| 17-JUL-1989 | 99 | PCB016 | ND | 5.000 | UGG |
| 17-JUL-1989 | UM13 | PCB016 | ND | 30.000 | UGL |
| 17-JUL-1989 | UH09 | PCB016 | LT | 0.133 | UGL |
| 17-JUL-1989 | LH08 | PCB016 | LT | 0.092 | UGG |
| 17-JUL-1989 | LH08 | PCB221 | ND | 0.080 | UGG |
| 17-JUL-1989 | 99 | PCB221 | ND | 5.000 | UGG |
| 17-JUL-1989 | UM13 | PCB221 | ND | 30.000 | UGL |
| 17-JUL-1989 | UH09 | PCB221 | ND | 0.500 | UGL |
| 17-JUL-1989 | LH08 | PCB221 | ND | 0.080 | UGG |
| 17-JUL-1989 | LHO8 | PCB232 | ND | 0.080 | UGG |
| 17-JUL-1989 | 99 | PCB232 | ND | 5.000 | UGG |
| 17-JUL-1989 | UM13 | PCB232 | ND | 30.000 | UGL |
| 17-JUL-1989 | UH09 | PCB232 | ND | 0.500 | UGL |
| 17-JUL-1989 | LHO8 | PCB232 | ND | 0.080 | UGG |
| 17-JUL-1989 | LH08 | PCB242 | ND | 0.080 | UGG |

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| SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------------------|----------------|----------------|----------|----------------|------------|
| 17-JUL-1989 | 99 | PCB242 | ND | 5.000 | UGG |
| 17-JUL-1989 | UM13 | PCB242 | ND | 30.000 | UGL |
| 17-JUL-1989 | UHO9 | PCB242 | ND | 0.500 | UGL |
| 17-JUL-1989 | LHO8 | PCB242 | ND | 0.080 | UGG |
| 17-JUL-1989 | LH08 | PCB248 | ND | 0.080 | UGG |
| 17-JUL-1989 | 99 | PCB248 | ND | 5.000 | UGG |
| 17-JUL-1989 | UM13 | PCB248 | ND | 30.000 | UGL |
| 17-JUL-1989 | UHO9 | PCB248 | ND | 0.500 | UGL |
| 17-JUL-1989 | LH08 | PCB248 | ND | 0.080 | UGG |
| 17-JUL-1989 | LH08 | PCB254 | ND | 0.160 | UGG |
| 17-JUL-1989 | 99 | PCB254 | ND | 10.000 | UGG |
| 17-JUL-1989 | UM13 | PCB254 | ND | 60.000 | UGL |
| 17-JUL-1989 | UHO9 | PCB254 | ND | 1.000 | UGL |
| 17-JUL-1989 | LH08 | PCB254 | ND | 0.160 | UGG |
| 17-JUL-1989 | LH08 | PCB260 | LT | 0.065 | UGG |
| 17-JUL-1989 | 99 | PCB260 | ND | 10.000 | UGG |
| 17-JUL-1989 | UM13 | PCB260 | ND | 60.000 | UGL |
| 17-JUL-1989 | UHO9 | PCB260 | LT | 0.087 | UGL |
| 17-JUL-1989 | LHO8 | PCB260 | LT | 0.065 | UGG |
| 17-JUL-1989 | 99 | PCP | ND | 2.000 | UGG |
| 17-JUL-1989 | UM13 | PCP | ND | 50.000 | UGL |
| 17-JUL-1989 | 99 | PHANTR | LT | 1.600 | UGG |
| 17-JUL-1989 | UM13 | PHANTR | LT | 0.759 | UGL |
| 17-JUL-1989 | 99 | PPDDD | LT | 0.017 | UGG |
| 17-JUL-1989 | 99 | PPDDD | LT | 0.390 | UGG |
| 17-JUL-1989 | UM13 | PPDDD | LT | 5.610 | UGL |
| 17-JUL-1989 17-JUL-1989 | UHO9 LHO8 | PPDDD | LT | 0.013 | UGL |
| 17-JUL-1989 17-JUL-1989 | 99 | PPDDD | LT LT | 0.020 | UGG |
| 17-JUL-1989 17-JUL-1989 | 99 | PPDDE PPDDE | LT | 0.014 0.400 | UGG UGG |
| 17-JUL-1989 17-JUL-1989 | UM13 | PPDDE | LT | 11.200 | UGL |
| 17-JUL-1989 | UHO9 | PPDDE | LT | 0.022 | UGL |
| 17-JUL-1989 | LHO8 | PPDDE | LT | 0.022 | UGG |
| 17-JUL-1989 | 99 | PPDDT | LT | 0.017 | UGG |
| 17-JUL-1989 | 99 | PPDDT | LT | 0.480 | UGG |
| 17-JUL-1989 | ÚM13 | PPDDT | LT | 5.070 | UGL |
| 17-JUL-1989 | UH09 | PPDDT | LT | 0.037 | UGL |
| 17-JUL-1989 | LHO8 | PPDDT | LT | 0.018 | UGG |
| 17-JUL-1989 | 99 | PYR | LT | 0.530 | UGG |
| 17-JUL-1989 | ÚM13 | PYR | LT | 9.380 | UGL |
| 17-JUL-1989 | JD11 | SB | | 0.654 | UGG |
| 17-JUL-1989 | SD11 | SB | LT | 2.500 | UGL |
| 17-JUL-1989 | JD11 | SB | LT | 0.393 | UGG |
| 17-JUL-1989 | JS05 | SB | ND | 11.000 | UGG |
| 17-JUL-1989 | JD11 | SE | LT | 1.880 | UGG |
| · · · | | | | - | |

Site: METHOD BLANK

| SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------|----------------|----------|------|---------------|-------|
| 17-JUL-1989 | SD11 | SE | LT | 6.940 | UGL |
| 17-JUL-1989 | JD11 | SE | LT | 1.880 | UGG |
| 17-JUL-1989 | JS05 | SE | LT | 103.000 | UGG |
| 17-JUL-1989 | 99 | TCLEA | LT | 7.100 | UGL |
| 17-JUL-1989 | 99 | TCLEA | LT | 0.003 | UGG |
| 17-JUL-1989 | 99 | TCLEA | LT | 0.003 | UGG |
| 17-JUL-1989 | 99 | TCLEE | | 0.302 | UGG |
| 17-JUL-1989 | 99 | TCLEE | LT | 2.300 | UGL |
| 17-JUL-1989 | 99 | TCLEE | LT | 0.008 | UGG |
| 17-JUL-1989 | 99 | TCLEE | LT | 0.008 | UGG |
| 17-JUL-1989 | JD11 | TL | LT | 2.150 | UGG |
| 17-JUL-1989 | SS06 | TL | LT | 59.900 | UGL |
| 17-JUL-1989 | JD11 | TL | LT | 2.150 | UGG |
| 17-JUL-1989 | JS05 | TL | LT | 67.600 | UGG |
| 17-JUL-1989 | 99 | TRCLE | LT | 1.000 | UGL |
| 17-JUL-1989 | 99 | TRCLE | LT | 0.002 | UGG |
| 17-JUL-1989 | 99 | TRCLE | LT | 0.002 | UGG |
| 17-JUL-1989 | 99 | TXPHEN | ND | 0.160 | UGG |
| 17-JUL-1989 | 99 | TXPHEN | ND | 10.000 | UGG |
| 17-JUL-1989 | UM13 | TXPHEN | ND | 60.000 | UGL |
| 17-JUL-1989 | UHO9 | TXPHEN | ND | 1.000 | UGL |
| 17-JUL-1989 | LHO8 | TXPHEN | ND | 0.160 | UGG |
| 17-JUL-1989 | 99 | UNK519 | | 0.379 | UGG |
| 17-JUL-1989 | 99 | UNK524 | | 0.348 | UGG |
| 17-JUL-1989 | 99 | UNK524 | | 0.423 | UGG |
| 17-JUL-1989 | 99 | UNK528 | | 4.710 | UGG |
| 17-JUL-1989 | 99 | UNK530 | | 0.537 | UGG |
| 17-JUL-1989 | 99 | UNK531 | | 0.435 | UGG |
| 17-JUL-1989 | 99 | UNK535 | | 0.471 | UGG |
| 17-JUL-1989 | UM13 | UNK536 | | 11.200 | UGL |
| 17-JUL-1989 | 99 | UNK538 | | 0.581 | UGG |
| 17-JUL-1989 | 99 | UNK538 | | 0.648 | UGG |
| 17-JUL-1989 | UM13 | UNK538 | | 10.700 | UGL |
| 17-JUL-1989 | 99 | UNK539 | | 0.315 | UGG |
| 17-JUL-1989 | UM13 | UNK541 | | 35.700 | UGL |
| 17-JUL-1989 | UM13 | UNK542 | | 6.890 | UGL |
| 17-JUL-1989 | UM13 | UNK542 | | 7.830 | UGL |
| 17-JUL-1989 | UM13 | UNK543 | | 6.100 | UGL |
| 17-JUL-1989 | UM13 | UNK544 | | 18.100 | UGL |
| 17-JUL-1989 | 99 | UNK545 | | 1.190 | UGG |
| 17-JUL-1989 | 99 | UNK601 | | 0.500 | UGG |
| 17-JUL-1989 | 99 | UNK609 | | 0.398 | UGG |
| 17-JUL-1989 | 99 | UNK617 | | 0.320 | UGG |
| 17-JUL-1989 | 99 | UNK619 | | 1.280 | UGG |
| 17-JUL-1989 | 99 | UNK628 | | 0.709 | UGG |

TABLES (cont.)

Site: METHOD BLANK

| SAMPLE DATE | TEST METHOD | COMPOUND | BOOL | CONCENTRATION | UNITS |
|----------------|----------------|----------|------|---------------|-------|
| | | | | | |
| 17-JUL-1989 | 99 | UNK629 | | 2.580 | UGG |
| 17-JUL-1989 | 99 | UNK641 | | 0.473 | UGG |
| 17-JUL-1989 | JS05 | ZN | | 60.600 | UGG |
| 17-JUL-1989 | SS06 | ZN | LT | 5.440 | UGL |
| 17-JUL-1989 | JS05 | ZN | | 58.700 | UGG |

AEHA DATA

| SAMPLE | GAITHERSBURG ARMY RESERVE CENTER | DATE | SAMPLING 16 DEC 1983 ANALYSIS 22 DEC 1983 | MS FILE | 122205164/ 122205165 | |
|---------------------------------------|--|----------|--|----------|-------------------------|--|
| COMPOU | AQAD ND SAMPLE | | D5164 83-41a | | D5165 83-41b | |
| BENZENI | 3 | | <3 | | <3 | |
| BROMOMI | | | <3 | | <3 | |
| BROMOD | CHLOROMETHANE | | <3 | | <3 | |
| BROMOF | | | <3 | | < 3 | |
| | TETRACHLORIDE | | <3 | | <3 | |
| | BENZENE | | <3 | | <3 | |
| CHLOROI | | _ | <3 | | <3 | |
| | ROETHYLVINYL ETHE | R | <3 | | <3 | |
| CHLOROI | CORM | | < 3 | | <3 | |
| CHLOKO | FORM METHANE OCHLOROMETHANE | | < 3 | | < 3 | |
| DIDION | CHECKORETHWAS | | <3 <3 | | <3 | |
| 1,1-DICHLOROETHANE | | <3 <3 | | <3 <3 | | |
| 1,2-DICHLOROETHANE 1,1-DICHLOROETHENE | | /2 | | <3 <3 | | |
| 1 2_DT | CHLOROETHENE (TRA CHLOROPROPANE | VC) | <3 | | <3 <3 | |
| 1,2-DIC | CHLOROPROPANE | 45) | \ 3 | | 3 | |
| 1.3-DTC | CHLOROPROPENE (CT | 5) | <3 | | 3 | |
| 1.3-DIG | CHLOROPROPENE (CI CHLOROPROPENE (TR | ANS) | <3 | | ₹3 | |
| ETHYLBE | ENZENE | ,,,, | <3 | | ₹3 | |
| METHYLE | ENE CHLORIDE | | <3 | | <3 | |
| 1,1,2,2 | 2-TETRACHLOROETHA | NE | <3 | | <3 | |
| | HLOROETHYLENE | | <3 | | <3 | |
| | 1,1,1-TRICHLOROETHANE | | <3 | | < 3 | |
| | TRICHLOROETHANE | | <3 | | <3 | |
| | ROETHYLENE | | <3 | | <3 | |
| | ROFLUOROMETHANE | | <3 | | <3 | |
| TOLUENI | | | <3 | | <3 | |
| | CHLORIDE | | <3 | | <3 | |
| OTHER (| COMPOUNDS: | | NONE | | NONE | |

Notes
Samples 83-41a was collected from an inlet valve to pressure tank at potable well head.

Sample 83-41b was collected from the cold-water tap in the men's latrine at the engine and frequency changer building.

RUN DATE: 16Feb84

RADIOLOGICAL AND INORGANIC CHEMISTRY DIVISION

Proj. Officer: Runyon

Division: WQED

Installation: Gaithersburg

Timekeeping #: 31

Sample Description: Treated H20

Remarks: Sample ID not legible.

Date Received: 23DEC83

Date Reviewed: 16FEB84

AQAO# F pН 230B02 105A02 Method# mg/L pН Lab# SPL ID D5166 <.1 6.7 TW 293 83-41C MH DR Analyst DateComp

USAEHA

Proj. Officer: Runyon

Installation: Gaithersburg

Sample Description: Potable Water

Remarks:

Date Received: 22DEC83 Date Reviewed: 23JAN84

| | | Fe | Zn | Cu |
|--------------|----------|--------|--------|--------|
| | Method # | 501C08 | 501C08 | 501C08 |
| SPL ID | Lab# | mg/L | mg/L | mg/L |
| D5166 83-41C | TW823 | 13.7 | 4.19 | <.025 |
| Analyst | | GM | GM | GM |

USAR Center 8510 Snouffers School Road Gaithersburg, Maryland 20760

Bldg. 14-1, Water Sample Data

Field Analysis

pH 6.2 Chlorine Residual 0

Lab Analysis

Bacteriological Coliform Colories (per 100 ml) - 0

Chemical

| pH | 6.5 |
|----------|------------|
| Copper | 0.03 mg/1 |
| Zinc | 7.3 mg/l |
| Iron | 0.74 mg/l |
| Fluoride | 0.20 mg/l |
| | |

Incl 1

APPENDIX E

CHEMICAL COMPOUND ABBREVIATIONS

**** TEST NAME ****

ABBREVIATION:

ELEMENT NAME:

TEST NAME

TEST NAME

ELEMENT IS USED IN THE FOLLOWING IR FILES:

DB#: DB NAME:

CHEMICAL (89-94)

C301

IR

ELEMENT SIZE AND CHARACTERISTICS:

6 (ALPHANUMERIC) LEFT JUSTIFY

ELEMENT DESCRIPTION:

UP TO 6 CHARACTERS (NUMBERS AND LETTERS) TO IDENTIFY THE PARAMETER BEING MEASURED.

NOTE: FOR UNKNOWN COMPOUNDS, USE THE CODE UNKXXX WHERE XXX IS THE NUMBER OF MINUTES FOR THE RETENTION TIME MULTIPLIED BY TEN. THE NUMBERS ARE FULL FIELD SO THAT UNKNOWN \$1 WOULD BE EXPRESSED AS UNKOO1 WITH THE ZEROS INCLUDED. A RETENTION TIME OF 3.2 MINUTES MULTIPLIED BY TEN WOULD BE 32 AND REPORTED AS UNKO32.

ACCEPTABLE CRITERIA:

- -REQUIRED ON ALL CHEMICAL RECORDS
- -MUST MATCH ONE OF THE ACCEPTABLE CODES BELOW
- -FOR UNKNOWNS, MUST BE WITHIN THE RANGE OF UNKOOL THRU UNK999
- -LAB MUST BE CERTIFIED IN THE METHOD CERTIFICATION TABLE FOR THE SPECIFIC TEST NAME EXCEPT FOR THE FOLLOWING TEST NAMES: PH, COND, TEMP, CILGR, BOD, COD, TOC, HARD, ASBEST, TSS
- -LAB DOES NOT REQUIRE CERTIFICATION FOR A SPECIFIC TEST NAME FOR METHOD NUMBER OF 99 OR MEASUREMENT BASED ON INTERNAL STANDARD

ACCEPTABLE ENTRIES AND CONDITIONS:

(ALPHABETIC SORT BY CODES)

AACHXE ACETIC ACID, CYCLOHEXYL ESTER

ABHC ALPHA-BENZENEHEXACHLORIDE / ALPHA-HEXACHLOROCYCLOHEXANE

AC HYDROGEN CYANIDE / HYDROCYANIC ACID

ACDHMW *ACIDS (HIGH MOLECULAR WEIGHT)

ACET ACETONE

ACEE ANTICHOLINESTERASE

ACIDIT *ACIDITY

ACND10 ACENAPHTHENE-D10

ACPHN ACETOPHENONE

ACROLN ACROLEIN

ACRYLO ACRYLONITRILE

ADHP AMMONIUM DIHYDROGEN PHOSPHATE AENSLF ALPHA-ENDOSULFAN / ENDOSULFAN I

AG SILVER

_

```
ΆL
         ALUMINUM
        *ALIPHATIC ALCOHOLS
ALAL
ALDEHY
       *ALL LHYDES
ALDRN
         ALDRIN
        *ALIPHATIC HYDROCARBONS
ALHC
ALHMW
        *ALCOHOLS (HIGH MOLECULAR WEIGHT)
ALK
        *ALKALINITY
ALKBIC
        *ALKALINITY, BICARBONATE
ALKCAR
       *ALKALINITY, CARBONATE
ALKHYD *ALKALINITY, HYDROXIDE
ALKN
        *ALKANES
ANAPNE
       ACENAPHTHENE
ANAPYL
        ACENAPHTHYLENE -
ANELNT
       *ANION ELUENT
ANIL
         ANILINE
ANTRO
         ANTHRACENE
ANTRON
         9-ANTHRACENECARBONITRILE
ANTRQU
         ATHRAQUINONE / 9,10-ANTHRACENEDIONE
AS
         ARSENIC
ASBEST
         ASBESTOS
ASEXT
        *ARSENIC, EXTRACTABLE
ASTOT
        *ARSENIC, TOTAL
ATNBA
         2,4,6-TRINITROBENZALDEHYDE
ATZ
         ATRAZINE
AYLETH
         ALLYL ETHER
AZACN
         AZACYLONONANE
R
         BORON
         BARIUM
BAANTR
         BENZO [A] ANTHRACENE
BAHXE
         BUTANOIC ACID, 1-HEXYL ESTER
BAPYR
         BENZO [A] PYRENE
BBFANT
         BENZO [B] FLUORANTHENE
         BENZO [B] FLUORENE
BBFLRE
         BETA-BENZENEHEXACHLORIDE / BETA-HEXACHLOROCYCLOHEXANE
BBHC
         BENZO (B) NAPHTHO (1,2-D) THIOPHENE
BBNTHP
BEZP
         BUTYLBENZYL PHTHALATE
BCHPD
         BICYCLO [2,2,1] HEPTA-2,5-DIENE
BCLME
         BIS (CHLOROMETHYL) ETHER
         BIS (CARBOXYMETHYL) SULFOXIDE
BCMSO
         BIS (CARBOXYMETHYL) SULFONE
BCMSO2
BCPHCE
         2,2-BIS (CHLOROPHENYL) CHLOROETHYLENE
всузнх
         BICYCLO [3,1,0] HEXANE
BDADME
         BUTANEDIOIC ACID, DIMETHYL ESTER
         BERYLLIUM
BEETO
         1-(2-BUTOXYETHOXY) ETHANOL
BENSLF
         BETA-ENDOSULFAN / ENDOSULFAN II
         BENZANTHRONE
BENZA
BENZAL
         BENZALDEHYDE
BENZID
         BENZIDINE
BENZOA
         BENZOIC ACID
BEP
         2-BUTOXYETHANOL PHOSPHATE
BF2ANT
         BENZOBIFLUOROANTHENE
BGHIFA
         BENZO [G,H,I] FLUROANTHENE
BGHIPY
         BENZO [G,H,I] PERYLENE
BICYHX
         BICYCLOHEXYL
BIDBI
         1,5-BIS (1,1-DIMETHYLETHYL)-3,3-DIMETHYLBICYCLO [3.1.0]
            HEXANE-2-ONE
BINAP
         BINAPHTHYL
BJFANT
         BENZO [J] FLUORANTHENE
```

BENZO (K) FLUORANTHENE

```
BLDX
        SLADEX
BMP
         BUTYLMETHYL PHTHALATE
BOD
        *BIOLOGICAL OXYGEN DEMAND
         BUTYLPHTHALYL BUTYLGLYCOLATE
BPBG
BRCLM
         BROMOCHLOROMETHANE
BRC6H5
         BROMOBENZENE
BRDCLM
         BROMODICHLOROMETHANE
BRMCIL
         BROMACIL
BTZ
         BENZOTHIAZOLE
BTMSOA
         BIS (TRIMETHYLSILYL) OXALIC ACID
BUC6H5
         BUTYLBENZENE
BUEETH
         BUTYLETHYL ETHER
         3-QUINUCLIDINYL BENZILATE
BZALC
         BENZYL ALCOHOL
BZAL2M
        ALPHA, ALPHA-DIMETHYLBENZENEMETHANOL
BZAPAN
         BENZO [A] PHENANTHRENE
BZCPAN
        BENZO (C) PHENANTHRENE
BZFANT
        BENZFLUORANTHENE
BZHQUN
        BENZO (H) QUINOLINE
BZOAME
         BENZOIC ACID, METHYL ESTER / METHYL BENZOATE
         BENZO (B) THIOPHENE
BZOTHP
BZOTRZ
          lh-Benzotriazole / 1,2,3-Benzotriazole
         BENZENEPHOSPHONIC ACID
BZPA
         BENZYLBROMIDE / ALPHA-BROMOTOLUENE
BZYLBR
         BIS (2-CHLOROETHOXY) METHANE
B2CEXM
B2CIPE
         BIS (2-CHLOROISOPROPYL) ETHER
B2CLEE
         BIS (2-CHLOROETHYL) ETHER
         BIS (2-ETHYLHEXYL) PHTHALATE
B2EHP
CA
         CALCIUM
CACO3S
        *CALCIUM CARBONATE SOLUTION
CALLMW
        *HYDROCARBONS (ALL MOLECULAR WEIGHTS)
CAME
         CARBAMIC ACID, METHYL ESTER
ĆAMP
         CAMPHOR
CAPLCT
         CAPROLACTAM / 6-AMINOHEXANOIC ACID LACTAM
CARBAZ
         9H-CARBAZOLE
CBA
         2-CHLOROBENZALDEHYDE
         CIS-1-BROMO-2-CHLOROCYCLOHEXANE
CBCCH
CBOA
         2-CHLOROBENZOIC ACID
CCLF2
         CHLORODIFLUOROMETHANE
CCLF3
         TRIFLUOROCHLOROMETHANE
CCL2F2
         DICHLORODIFLUOROMETHANE
         TRICHLOROFLUOROMETHANE
CCL3F
CCL4
         CARBON TETRACHLORIDE
CC3
         XXCC3
CD
         CADMIUM
CDACH
         CIS-1, 2-DIACETOXYCYCLOHEXANE
CDCL3
         CHLOROFORM-D
        *CHLORODINITROBENZENE ISOMER
CDNBIS
CD2CL2
        METHYLENE CHLORIDE-D2
CEC
        *CATION EXCHANGE CAPACITY
CG
         PHOSGENE / CARBONYL CHLORIDE
CHBR3
         BROMOFORM
CHCL3
         CHLOROFORM
         1,2-CYCLOHEXANE OXIDE
CHO
CHOLA
         CHOLESTANE
CHONE
         CYCLOHEXANONE
CHRY
         CHRYSENE
         METHYLENE BROMIDE
CH2BR2
         METHYLENE CHLORIDE
CH2CL2
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CH3BR

BROMOMETHANE

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CH3CL
         CHLOROMETHANE
CH3CN
         ACETONITRILE
CK
         CYANOGEN CHLORIDE
CL
         CHLORIDE
CLCYHX
         CHLOROCYCLOHEXANE
CLC2A
         CHLOROACETIC ACID
CLC6D5
         CHLOROBENZENE-D5
CLC6H5
         CHLOROBENZENE
CLD
        *CHLORINE DEMAND
CLDAN
         CHLORDANE
CLDEN
         CHLORDENE
CLNAP
        *CHLORO NAPHTHALENES
CLO3
        CHLORATE
CLP
        *CHLORO PHENOLS
CLVRA
         2-CHLOROVINYL ARSONIC ACID
CLXB
        *CHLORINATED BENZENES
CLXNAP
        *CHLORINATED NAPHTHALENES
CL2
         CHLORINE
        DICHLOROACETONITRILE
CL2ACN
CL2BP
        *DICHLORO BIPHENYLS
CL2BZ
        *DICHLORO BENZENES
CL2NAP
        *DICHLORO NAPHTHALENES
CL3BP
        *TRICHLORO BIPHENYLS
        *TRICHLORO PROPENES
CL3C3E
CL3NAP
        *TRICHLORO NAPHTHALENES
CL3P
        *TRICHLORO PHENOLS
CL4BP
        *TETRACHLORO BIPHENYLS
CL4NAP
        *TETRACHLORO NAPHTHALENES
CL5B
         PENTACHLOROBENZENE
CL5BP
        *PENTACHLORO BIPHENYLS
CL5ET
         PENTACHLOROETHANE
CL6BP
        *HEXACHLORO BIPHENYLS
CL6BZ
         HEXACHLOROBENZENE
CL6CP
         HEXACHLOROCYCLOPENTADIENE
CL6ET
         HEXACHLOROETHANE
CL7BP
        *HEPTACHLORO BIPHENYLS
CL7NB
        *HEPTACHLORO NORBORNADIENES
CMONOX
         CARBON MONOXIDE
CN
         CHLOROACETOPHENONE
CO
         COBALT
COD
        *CHEMICAL OXYGEN DEMAND
        *SPECIFIC CONDUCTIVITY
COND
COUMRN
         COUMARAN / 2,3-DIHYDROBENZOFURAN
CO3
         CARBONATE
CPCXAL
         CYCLOPENTANECARBOXALDEHYDE
         4-CHLOROPHENYLMETHYL SULFIDE
CPMS
CPMSO
         4-CHLOROPHENYLMETHYL SULFOXIDE
         4-CHLOROPHENYLMETHYL SULFONE
CPMSO2
CPO
         CYCLOPENTANONE
CR
         CHROMIUM
         HEXAVALENT CHROMIUM
CRHEX
CRO4
         CHROMATE
CS
         CESIUM
CSOL
         *CRESOLS
CS2
         CARBON DISULFIDE
CU
         COPPER
CUEXT
         *COPPER, EXTRACTABLE
CUTOT
         *COPPER, TOTAL
         PHOSGENE OXIME / DICHLOROFORMOXIME
CX
```

CYCLODODECANE

CYDODC

_ .

```
CYCLOHEXANE
CYHX
         CYCLOHEXYLBENZENE / PHENLYCYCLOHEXANE
CYHXB
CYN
         CYANIDE
CYNF
        *CYANIDE, FREE FORM
CYOCTE
         CYCLOOCTATETRAENE
         CYCLOPENTADIENE
CYPNE
         CYCLOPENTENE
CYSD12
         CHRYSENE-D12
CIADME
         CARBONIC ACID, DIMETHYL ESTER
C10
         DECANE
C11
         HENDECANE
C12
         DODECANE
C12AMM 8-METHYLDECANOIC ACID, METHYL ESTER
C12DCE CIS-1,2-DICHLOROETHENE
C13
         TRIDECANE
C13DCP
         CIS-1,3-DICHLOROPROPYLENE / CIS-1,3-DICHLOROPROPENE
C14
         TETRADECANE
C14A
         TETRADECANOIC ACID / MYRISTIC ACID
         TETRADECANOIC ACID, METHYL ESTER
C14AME
C15
         PENTADECANE
         PENTADECANOIC ACID
C15A
C16
         HEXADECANE
         HEXADECANOIC ACID / PALMITIC ACID
C16A
C16ABE
         HEXADECANOIC ACID, BUTYL ESTER
C16ADM HEXADECANOIC ACID, DIMETHYL ESTER
C16AEH HEXADECANOIC ACID, BIS (2-ETHYLHEXYL) ESTER
C16AME HEXADECANOIC ACID, METHYL ESTER
C16SAT *SATURATED HYDROCABONS (C16)
C17
         HEPTADECANE
C17AM
         HEPTADECANOIC ACID, METHYL ESTER
C18
         OCTADECANE
C18ABE
         OCTADECANOIC ACID, BUTYL ESTER
         OCTADECANOIC ACID, ETHYL ESTER
C18AE
C18AME OCTADECANOIC ACID, METHYL ESTER
C18AOD
       OCTADECANOIC ACID, OCTADECYL ESTER
C18UNS *C18H300 UNKNOWN
C185FP BIS (PENTAFLUOROPHENYL) PHENYL PHOSPHINE
C19
         NONADECANE
C19A
         NONADECANOIC ACID
         ACETIC ACID, ETHYL ESTER / ETHYL ACETATE
C2AEE
        ACETIC ACID, VINYL ESTER / VINYL ACETATE
         CHLOROETHENE / VINYL CHLORIDE
C2H3CL
C2H5CL
         CHLOROETHANE
C20
         EICOSANE
C21
         HENEICOSANE
C22UNS *C22H400 UNKNOWN
C25
         PENTACOSANE
C3AME
        PROPANOIC ACID, METHYL ESTER
        PROPANOIC ACID, 2-METHYLBUTYL ESTER
C3A2MB
         TRIACONTANOIC ACID, METHYL ESTER
C30AME
C36
         HEXATRIACONTANE
C4
         BUTANE
         CIS-4-HEXEN-1-OL
C4HX1L
         PENTANOIC ACID / VALERIC ACID
C5A
         BENZENE-D6
C6D6
C6HOH
         CYCLOHEXANOL
C6H6
         BENZENE
C7
         HEPTANE
C7A
         HEPTANOIC ACID
C7NB1
         HEPTACHLORONORBORNENE
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C8
         OCTANE
         OCTANOIC ACID, METHYL ESTER
C8AME
C9
         NONANE
DBABA
         DIBENZ [A,B] ANTHRACENE
DBAHA
         DIBENZ [A,H] ANTHRACENE
DBATTS
         2,4-DIHYDROXYBENZOIC ACID, TRIS-TRIMETHYSILYL
DBCP
         DIBROMOCHLOROPROPANE
DBHC
         DELTA-BENZENEHEXACHLORIDE / DELTA-HEXACHLOROCYCLOHEXANE
DBRCLM
         DIBROMOCHLOROMETHANE
DBTSPY
         4,5-DIMETHYL-2,6-BIS (TRIMETHYLSILOXY) PYRIMIDINE
DBUCLE
         DIBUTYLCHLORENDATE
DBZFUR
         DIBENZOFURAN
DBZTHP
         DIBENZOTHIOPHENE
DCAMBA
         2-METHOXY-3,6-DICHLOROBENZOIC ACID
DCBPH
         DICHLOROBENZOPHENONE
DCHP
         DICYCLOHEXYL PHTHALATE
DCMBF
         5,7-DICHLORO-2-METHYLBENZOFURAN
DCMPSX
         DECAMETHYLCYCLOPENTASILOXANE
DCPD
         DICYCLOPENTADIENE
DDVP
         VAPONA
DEA
         DIETHYLAMINE
DECYLB
         DECYLBENZENE
DEDMP
         DIETHYL DIMETHYL DIPHOSPHONATE
         DIETHYL ETHER
DEETH
         DIETHYLENE GLYCOL / 2,2-OXY BIS {ETHANOL}
DEGLYC
         DIETHYL PHTHALATE
DEP
         DIETHYL PHTHALATE-D4
DEPD4
DHBZPY
         3,4-DIHYDRO-2H-1-BENZOPYRAN
         9,10-DIHYDRO-9,9-DIMETHYLACRIDINE
DHDMAC
         DIACETONE ALCOHOL / 4-HYDROXY-4-METHYL-2-PENTANONE
DIACAL
DIADS
         BIS (DIISOPROPYLAMINO) ETHYLDISULFIDE
         BIS (DIISOPROPYLAMINO) ETHANOL
DIAEL
DIAEP
         S-DIISOPROPYLAMINOETHYLMETHYL PHOSPHONOTHIOATE
         BIS (DIISOPROPYLAMINO) ETHANETHIOL
DIAET
DIAS
         BIS (DIISOPROPYLAMINO) ETHYLSULFIDE
DIASO2
         BIS (DIISOPROPYLAMINO) ETHYLSULFONATE
         DIAZINON
DIAZ
DIBP
         DIISOBUTYL PHTHALATE
        *DICHLORO PHENOLS
DICLP
         DIISOPROPYL DIMETHYL DIPHOSPHONATE
DIDDP
DIH20
         DEIONIZED WATER
DIMP
         DIISOPROPYLMETHYL PHOSPHONATE
DIOP
         DIISOOCTYL PHTHALATE
DIPETH
         DIISOPROPYL ETHER
DIPUR
         DIISOPROPYL UREA
DITH
         DITHIANE
DLDRN
         DIELDRIN
DL2HPG
         DL-2-(3-HYDROXYPHENYL) GLYCINE
         ADAMSITE
DM
DMCAR
         DIMETHYL DITHIOCARBONATE
DMCPDE
         1,2-DIMETHYLCYCLOPENTADIENE
DMDS
         DIMETHYL DISULFIDE
DMETH
         DIMETHYL ETHER
DMIP
         DIMETHYL ISOPHTHALATE
DMMP
         DIMETHYLMETHYL PHOSPHATE
DMP
         DIMETHYL PHTHALATE
DMPCHE
         3-(2,2-DIMETHYLPROPOXY) CYCLOHEXENE
DMPTHF
         2,2-DIMETHYL-5-(1-METHYLPROPYL) TETRAHYDROFURAN
         DIMETHOXY DIMETHYLSILANE
DMXDMS
         2,2-DIMETHYL-1-ACETYLCYCLOHEXANE
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DM1ACH

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1,1-DI-N-BUTYLETHYLENE / 1,1-DI-N-BUTYLETHENE
DNBEE
DNBP
         DI-N-BUTYL PHTHALATE
DNOP
         DI-N-OCTYL PHTHALATE
DNOPD4
         DI-N-OCTYL PHTHALATE-D4
DNPP
        DI-N-PENTYL PHTHALATE
DNTISO *DINITROTOLUENE ISOMER
DO
        *DISSOLVED OXYGEN
DOAD
         DIOCTYL ADIPATE
DOAZ
         DIOCTYL AZELATE
DODECB
         DODECYLBENZENE
DOETH
         DIOCTYL ETHER
DOPAM
         DOPAMINE / 4-(2-AMINOETHYL) PYROCATECHOL
AGG
         DIPHENYLAMINE
DPETH
         DIPHENYL ETHER
DPETYN
         1,1-(1,2-ETHYNEDIYL) BIS (BENZENE)
DPHNY
         DIPHENYL
DPNTLL
         D-(-)-PANTOLYL LACTONE
DPSO
         DIPHENYL SULFOXIDE
DPSULF
         DIPHENYL SULFIDE / 1,1-THIO BIS {BENZENE}
       DISELENO DIINDOLE
DSEDIN
DTB4C
         2,6-DI-TERT-BUTYL-4-CRESOL
DTCHBO
         1.ALPHA.(E), 4.ALPHA.-1-(1,4-DIHYDROXY-2,6,6-TRIMETHYL-
            2-CYCLOHEXEN-1-YL)-2-BUTEN-1-ONE
DURS
        DURSBAN
DYSCAN *GC-MS DYE SCAN
EBCPGL
         ETHYL-2,2-BIS (4-CHLOROPHENYL) GLYCOLATE
ED
        DICHLOROETHYL ARSINE
EDBDAS
         3-PHENYLPROPANOL
EICOSL
         1-EICOSANOL
         ETHYLMETHYL PHOSPHONIC ACID / ETHYLMETHYL PHOSPHONATE
EMPA
ENDRN
         ENDRIN
ENDRNA ENDRIN ALDEHYDE
ÆNDRNK
         ENDRIN KETONE
ENHETH ETHYL-N-HEXYL ETHER
ESFSO4
         ENDOSULFAN SULFATE
ETBD10 ETHYLBENZENE-D10
ETCYHX
         ETHYLCYCLOHEXANE
ETC6H5 ETHYLBENZENE
ETOH
         ETHANOL
        FLUORIDE
FABPEE
       FORMIC ACID, BETA-PHENYLETHYL ESTER
        FORMIC ACID, CYCLOHEXYL ESTER
FACHXE
FANT
        FLUORANTHENE
        FARNESOL
FARN
        *FATTY ALCOHOLS
FATAL
FC2A
        FLUOROACETIC ACID
FE
         IRON
FLRENE
         FLUORENE
FREON
         FREON / DICHLOROFLUOROMETHANE
         DECAFLUOROBIPHENYL
F10BP
         TABUN / ETHYL-N,N-DIMETHYL PHOSPHORAMIDOCYANIDATE
GA
         SARIN / ISOPROPYLMETHYL PHOSPHONOFLUORIDATE
GB
         SOMAN / PINACOLYLMETHYL PHOSPHONOFLUORIDATE
GD
         GREEN DYE
GRNDY
         LEVINSTEIN MUSTARD
HARD
        *TOTAL HARDNESS
         HEXACHLOROBUTADIENE
HCBD
HCNB
         HEXACHLORONORBORNADIENE
HCO3
         BICARBONATE
         DISTILLED MUSTARD / BIS (2-CHLOROETHYL) SULFIDE
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HEXANE
         HEXANE
ĦG
         MERCURY
HGEXT
        *MERCURY, EXTRACTABLE
HGTOT
        *MERCURY, TOTAL
HMTCHE
         2,6,10,15,19,23-HEXAMETHYL-2,6,10,14,18,22-TETRACOSAHEXAENE
HMX
         CYCLOTETRAMETHYLENETETRANITRAMINE
HN
         NITROGEN MUSTARD
HPCL
         HEPTACHLOR
HPCLE
         HEPTACHLOR EPOXIDE
HPLH20
         HPLC GRADE WATER
HPO4
        *HYDROLYZABLE PHOSPHATE
HWX013
         HALOWAX 1013
HWX099
         HALOWAX 1099
HXAB2E
         HEXANEDIOIC ACID, BIS (2-ETHYLHEXYL) ESTER
HXADBE
         HEXANEDIOIC ACID, DIBUTYL ESTER / DIBUTYL ADIPATE
HXADME
         HEXANEDICIC ACID, DIMETHYL ESTER / DIMETHYL ADIPATE
HXADOE
         HEXANEDIOIC ACID, DIOCTYL ESTER / DIOCTYL ADIPATE
HXCOS
         HEXACOSANE
         4,5,6,7,8,8A-HEXAHYDRO-8A-METHYL-2-{1H}-AZULENONE
HXHMAZ
         HEXAMETHYLENETETRAMINE / 1,3,5,7-TETRAAZATRICYCLO
HXMETA
            [3.3.13.7] DECANE
HXMTSX
         HEXAMETHYLCYCLOTRISILOXANE
HYDRND
         HYDRINDANE / OCTAHYDRO-1H-INDENE
         HYDRAZINE
HYDRZ
HYNB
         7-HYDROXYNORBORNADIENE
H2S
         HYDROGEN SULFIDE
H3P04
         PHOSPHORIC ACID
         INDENO [1,2,3-C,D] PYRENE
ICDPYR
         ISOPROPYLMETHYL PHOSPHONIC ACID / ISOPROPYLMETHYL
IMPA
            PHOSPHONATE
         1-HYDROXY-2,3-METHYLENE INDAN
INDAN
INDENE
         INDENE
INDOLE
         INDOLE / 2,3-BENZOPYRROLE
ISODR
         ISODRIN
         ISOPROPYLBENZENE / CUMENE
ISOPBZ
ISOPHR
         ISOPHORONE
ISOQUN
         ISOQUINOLINE
         POTASSIUM
KEND
         KETO-ENDRIN
         LEWISITE
LACYBB
         LACTIC ACID, CYCLIC BUTANEBORONATE
         LAURIC ACID
LAURIC
LIN
         LINDANE / GAMA-BENZENEHEXACHLORIDE /
            GAMMA-HEXACHLOROCYCLOHEXANE
LIPID
        *% LIPIDS
LO
         LEWISITE OXIDE
MALO
         MALONONITRILE
MBADOE
         3-METHYLBUTANOIC ACID, 3,7-DIMETHYL-2,4,6-OCTATRIENYL ESTER
MBAS
        *FOAMING AGENTS / METHYALYNE BLUE ACTIVE SUBSTANCE
MBOH
         ALPHA-METHYLBENZYL ALCOHOL
MBZA
         ALPHA-METHYLBENZYL ACETOACETATE
MBZCAC
         5-METHYLBENZO (C) ACRIDINE
MBZCL
         ALPHA-METHYLBENZYL-2-CHLOROACETOACETATE
MDCL
         2-METHYLHENDECANAL / 2-METHYLUNDECANAL
MEAOA
         METHYL ARSONIC ACID
         1,1'-METHYLENE BIS (PIPERIDINE)
MEBPIP
MECC 6
         METHYLCYCLOHEXANE
MECYBU
         METHYLCYCLOBUTANE
         METHYLCYCLODECANE
MECYDC
MECYPE
         METHYLCYCLOPENTANE
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MEC6D8
         TOLUENE-D8
MEC6H5
         TOLUENE
MEHG
         METHYL MERCURY
         METHYL MERCURY CHLORIDE
MEHGCL
MEK
         METHYLETHYL KETONE / 2-BUTANONE
MEOH
         METHANOL
MEPOH
         2-METHYLPENTANOL
MESTOX
         MESITYL OXIDE / 4-METHYL-3-PENTEN-2-ONE
        *METHYL NAPHTHALENES
METLAP
MEXCLR
         METHOXYCHLOR
ME2AEA
         DIMETHYL ARSENIC ACID
ME2C11
        *DIMETHYL UNDECANES
ME2HG
         DIMETHYL MERCURY
ME2HPL
        *METHYL-2-HEPTANOLS
ME2HPO
        *METHYL-2-HEPTANONES
ME2NAP
        *DIMETHYL NAPHTHALENES
ME3C10
        *TRIMETHYL DECANES
ME3C11
        *TRIMETHYL UNDECANES
ME3C6
        *TRIMETHYL HEXANES
        *TRIMETHYL NAPHTHALENES
ME3NAP
         MAGNESIUM
MG
MHYDRZ
         METHYLHYDRAZINE
         METHYLISOBUTYL KETONE
MIBK
         METHYLISOPROPYL KETONE
MIPK
MIREX
         MIREX
MLTHN
         MALATHION
MN
         MANGANESE
         METHYL-N-BUTYL KETONE / 2-HEXANONE
MNBK
MO
         MOLYBDENUM
        *METHYL PHENOLS
MP
         METHYLPHOSPHONIC ACID
MPA
MPDDD
          2-(META-CHLOROPHENYL)-2-(PARA-CHLOROPHENYL)-
             1.1-DICELOROETHANE
         METHYLPROPYL KETONE / 2-PENTANONE
MPK
MOFH20
         MILLI-Q-FILTERED WATER
        *GC-MS ORGANIC SCAN
MSSCAN
         METRAZOL / CARDIAZOLE
MTRZL
         SODIUM
NA
         50% 1M NAOH - 50% METHANOL
NAOHME
         NAPHTHALENE
NAP
         NAPHTHALENE-D8
NAPD8
         NITROBENZENE
NB
         NITROBENZENE-D5
NBD5
         N-BUTYL-4-METHYLBENZENESULFONAMIDE
NBMBSA
NBUETH
         N-BUTYL ETHER / 1,1'-OXY BIS (BUTANE)
NC
         NITROCELLULOSE
         NORTRICYCLANOL
NCLN
NCPPPA
         N-(4-CHLOROPHENYL)-3-PHENYL-2-PROPENAMIDE
         NITROCELLULOSE, 12% N
NITROCELLULOSE, 13.4% N
NC1
NC2
NDHXA
         N-NITRO DIHEXYLAMINE
NDIOX
          NITROGEN DIOXIDE
NDMBSA
          N, 4-DIMETHYLBENZENESULFONAMIDE
         NITROSO DI-N-PROPYLAMINE
NDNPA
          N-ETHYLCYCLOHEXYLAMINE
NECHXA
          N-ETHYL-2-PROPENAMIDE
NE2PEA
NG
          NITROGLYCERINE
          N-(2-HYDROXYETHYL)-DECANAMIDE
NHEDCA
NH3
          AMMONIA
NH3N2
          AMMONIA NITROGEN
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NI
         NICKEL
        *NITRITE, NITRATE-NON SPECIFIC
TIN
NITARO
        *NITRO AROMATICS
NMANIL
         N-METHYLANILINE
NMCANE
         N-METHYLCARBAMIC ACID, 1-NAPHTHYL ESTER
NMNSOA
         N-METHYL-N-NITROSOANILINE
NNADME
         NONANEDIOIC ACID, DIMETHYL ESTER
NNDMA
         N, N-DIMETHYLANILINE
NNDMEA
         N-NITROSO DIMETHYLAMINE
NNDNPA
         N-NITROSO DI-N-PROPYLAMINE
NNDPA
         N-NITROSO DIPHENYLAMINE
NNPIPA
         N-NITROSOPENTYLISOPENTYLAMINE
NN4HPL
         N-NITROSO-4-HYDROXYPROLINE
NO2
         NITRITE
NO3
         NITRATE
ИQ
         NITROQUANIDINE
N2KJEL
       *NITROGEN BY KJELDAHL METHOD
OCADME
         OCTANEDIOIC ACID, DIMETHYL ESTER
ODAPDM
         OCTADECANOIC ACID, (2-PHENYL-1,3-DIOXOLAN-4-YL) METHYL ESTER
ODECA
         OCTADECANOIC ACID / STEARIC ACID
ODMNSX
         OCTADECAMETHYLCYCLONONASILOXANE
OEMP
         O-ETHYLMETHYL PHOSPHONATE
OILGR
        *OIL & GREASE
OMCTSX
         OCTAMETHYLCYCLOTETRASILOXANE
OPDDD
         2-(ORTHO-CHLOROPHENYL)-2-(PARA-CHLOROPHENYL)-
            1,1-DICHLOROETHANE
OPDDE
         2-(ORTHO-CHLOROPHENYL)-2-(PARA-CHLOROPHENYL)-
            1,1-DICHLOROETHENE
OPDDT
         2-(ORTHO-CHLOROPHENYL)-2-(PARA-CHLOROPHENYL)-
            1,1,1-TRICHLOROETHANE
OPO4
        *ORGANOPHOSPHATES
OXAT
         1,4-OXATHIANE
OXCN
         OXACYCLONONANE
OZONE
         OZONE
PAD4NE
        PHOSPHORIC ACID, DIETHYL-4-NITROPHENYL ESTER
        *POLYNUCLEAR AROMATIC HYDROCARBONS
PAH
PAODPE
        PHOSPHORIC ACID, OCTYL DIPHENYL ESTER
PARTIC
        *PARTICULATE MATTER
         PROPANOIC ACID, T-BUTYL ESTER
PATBUE
         PHOSPHORIC ACID, TRIPHENYL ESTER
PATPE
         PROPANOIC ACID, 2-HYDROXYDECYL ESTER PENTANOIC ACID, 2-METHYLBUTYL ESTER
PA2HDE
PA2MBE
PB
         LEAD
PBSTY
         LEAD STYPHNATE
         PCB 1016
PCB016
         PCB 1221
PCB221
         PCB 1232
PCB232
PCB242
         PCB 1242
         PCB 1248
PCB248
PCB254
         PCB 1254
PCB260
         PCB 1260
PCB262
         PCB 1262
         PENTACHLOROPHENOL
PCP
PCYMEN
          4-CYMENE / 4-(1-METHYLETHYL) TOLUENE
PD
         DICHLOROPHENYL ARSINE
PDMSLX
         POLYDIMETHYL SILOXANE / DIMETHYLPOLY SILOXANE
PEGE
         *POLYETHYLENEGLYCOL ETHERS
PENAMD
         N-PENTAMIDE
PENTAN
         PENTANE
         PENTAERYTHRITOL TETRANITRATE
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PFP
         PENTAFLUOROPHENOL
PH
        *PH
PHAD10
         PHENANTHRENE-D10
PHANTR
         PHENANTHRENE
PHENAA
         PHENYLACETIC ACID
PHEND5
         PHENOL-D5
PHEND6
         PHENOL-D6
PHENLC
        *PHENOLICS (NON-SPECIFIC)
PHENOL
         PHENOL
PHTHA
         PHTHALIC ACID / 1,2-BENZENEDICARBOXYLIC ACID
PHTHL
        *PHTHALATES
         PHENOXYACETIC ACID
PHXAA
         1,2,3,4,5-PENTAHYDROXYCYCLOPENTANE
PHYCP
PIPER
         PIPERIDINE
        *PURGEABLE ORGANIC HALOGENS
POX
PO4
         PHOSPHATE
PO4ORT
         ORTHOPHOSPHATE
         2,2-BIS (PARA-CHLOROPHENYL)-1,1-DICHLOROETHANE
PPDDD
PPDDE
         2,2-BIS (PARA-CHLOROPHENYL)-1,1-DICHLOROETHENE
PPDDT
         2,2-BIS (PARA-CHLOROPHENYL)-1,1,1-TRICHLOROETHANE
         2,2-BIS (PARA-CHLOROPHENYL)-2-PHENYL-1,1-DICHLOROETHENE
PPTDE
         PROPYLBENZENE
PRC6H5
PRTHN
         PARATHION
PYLD12
         PERYLENE-D12
PYR
        PYRENE
PYRD10
        PYRENE-D10
P4
         PHOSPHORUS
         CYCLOTRIMETHYLENETRINITRAMINE / CYCLONITE
RDX
REDDY
        RED DYE
RESACI *RESIN ACIDS
         SULFUR
SB
         ANTIMONY
SCN
         THIOCYANATE
SE
         SELENIUM
SIL
         SILICONE
SILVEX
         SILVEX
SN
         TIN
SO3
         SULFITE
SO4
         SULFATE
         (1',5 TRANS)-7-CHLORO-6-HYDROXY-2',4-DIMETHOXY-6'-METHYL-
SPIRO
            SPIRO [BENZOFURAN-2-(3H)-1'-(2)-CYCLOHEXENE]-3,4'-DIONE
SQUAL
         SQUALENE
         STRONTIUM
SR
        *STEROIDS
STERO
STIGMA
         STIGMASTENAL
STYPH
         STYPHNATE ION
         STYPHNIC ACID
STYPHA
STYR
         STYRENE
         SULFURIC ACID, DIMETHYL ESTER
SUADME
SULFID
         SULFIDE
         SUPONA / 2-CHLORO-1-(2,4-DICHLOROPHENYL) VINYL DIETHYL
SUPONA
            PHOSPHATE
S2CL2
         SULFUR MONOCHLORIDE
TBA
         TRIBUTYLAMINE
TBASDE
         THIOBUTYRIC ACID, S-DECYL ESTER
         TRIBUTYL PHOSPHATE
TBP
TCB
        *TETRCCHLORO BENZENES
         1,2,4,5-TETRACHLOROBENZENE
TCB1
         1,2,3,4-TETRACHLOROBENZENE
TCB2
         1,2,3,5-TETRACHLOROBENZENE
TCB3
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TCDD
         2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN / DIOXIN
TCHDCS
         TRANS-1,2-CYCLOHEXANDIOL, CYCLIC SULFITE
TCLEA
         1,1,2,2-TETRACHLOROETHANE
TCLEE
         TETRACHLOROETHYLENE / TETRACHLOROETHENE
TCLTFE
         1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE
TCOS
         TETRACOSANE
TCSAME
         15-TETRACOSENOIC ACID, METHYL ESTER
TCST
        *TRICHLORO STYRENES
TDGCL
         THIODIGLYCOL
TDGCLA
         THIODIGLYCOLIC ACID
TDMHSX
         TETRADECAMETHYL HEXASILOXANE
TDODTL
         TERT-DODECANETHIOL
TDS
        *TOTAL DISSOLVED SOLIDS
TEGLME
         TRIETHYLENE GLYCOL, METHYL ETHER
TEGLYC
         TRIETHYLENE GLYCOL / 2,2'-{1,2-ETHANEDIYL BIS (OXY)} BIS
            [ETHANOL]
TEMP
        *TEMPERATURE
TEPO4
         TRIETHYL PHOSPHATE
TETPT
        *TETRACHLORO CYCLOPENTENES
TETR
         TETRAZENE
         N-METHYL-N, 2, 4, 6-TETRANITROANILINE / NITRAMINE
TETRYL
TFAAPE
         TRIFLUOROACETIC ACID, 1,5-PENTANEDIYL ESTER
TFDCLE
         1,1,2-TRIFLUORO-1,2-DICHLOROETHANE
TGLYME
         TETRAGLYME
THF
         TETRAHYDROFURAN
THNAP
         1,2,3,4-TETRAHYDRONAPHTHALENE / TETRALIN
THP 2ML
         TETRAHYDROPYRANYL-2-METHANOL
TL
         THALLIUM
TMHPDO
         3,3,6-TRIMETHYL-1,5-HEPTADIEN-4-ONE
TMHXL
         3,5,5-TRIMETHYL-1-HEXANOL
TMODEO
         2,2,7,7-TETRAMETHYL-4,5-OCTADIEN-3-ONE
TMPHAN
         TETRAMETHYLPHENANTHRENE
TMP03
         TRIMETHYL PHOSPHITE
TMPO4
         TRIMETHYL PHOSPHATE
TMTCON
         3,5,24-TRIMETHYLTETRACONTANE
TMUR
         TETRAMETHYLUREA
TM3PL
         2,3,4-TRIMETHYL-3-PENTANOL
TNBISO
        *TRINITROBENZENE ISOMER
TNTISO
        *TRINITROTOLUENE ISOMER
TOC
        *TOTAL ORGANIC CARBON
        *TOTAL VALUE OF ALL DDT, DDE, DDD ISOMERS
TOTDDT
TOTGAF
        *TOTAL GRAVIMETRIC, ACID FRACTION
TOTHG2
        *TOTAL MERCURY
TOTPCB
        *TOTAL PCBS
TOX
        *TOTAL ORGANIC HALOGENS
TPH
         THIOPHENE
TPO4
        *TOTAL PHOSPHATES
TRCLE
         TRICHLOROETHYLENE / TRICHLOROETHENE
TRIBZ
        *TRICHLORO BENZENES
TRIMBZ
       *TRIMETHYL BENZENES
         TRICHLOROCYCLOPENTENE
TRIPT
         2,3,4-TRIMETHYL-4-TETRADECENE
TRMTDE
TRPD14
         TERPHENYL-d14
         TRIPHENYLENE
TRPHEN
TRXMET
        *TRIHALO METHANES
        *TOTAL SULFUR
TSAHPE
         4-TOLUENESULFONIC ACID, HEPTYL ESTER
        *TOTAL SUSPENDED SOLIDS
TSS
TVS
        *TOTAL VOLATILE SOLIDS
TXPHEN
       TOXAPHENE
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T1B2BC
         TRANS-1-BROMO-2-BUTYLCYCLOPROPANE
T12DCE
         TRANS-1,2-DICHLOROETHYLENE / TRANS-1,2-DICHLOROETHENE
T13DCP
         TRANS-1,3-DICHLOROPROPENE
T2DEC
         TRANS-2-DECENE
UDMH
         UNSYMMETRICAL DIMETHYL HYDRAZINE
UNKXXX
        *UNKNOWN COMPOUND, XXX = 001 THRU 999
         VANADIUM
VARHY
        *VARIOUS HYDROCARBONS WITH INCREASING M.W.
VFA
         VINYL FORMATE
VM
         O-ETHYL-S-(2-DIETHYLAMINOETHYL) METHYL PHOSPHONOTHIOLATE
VX
         O-ETHYL-S-(2-DIISOPROPYLAMINOETHYL) METHYLPHOSPHONOTHIOLATE
WP
         WHITE PHOSPHORUS
XPLOSV
        *EXPLOSIVE SPRAY
XYLEN
        *XYLENES
YELDY
         YELLOW DYE
ZN
         ZINC
2R
         ZIRCONIUM
01NHCL
         0.1 N HYDROCHLORIC ACID
1A3MPZ
         1-ACETYL-3-METHYL-5-PYRAZOLONE
1A4HMB
         1-ACETYL-4-(1-HYDROXY-1-METHYLETHYL) BENZENE
1BY4HB
         1-BENZYL-4-HYDROXYBENZIMIDAZOLE
1CDMPZ
         1-CARBAMCYL-3,5-DIMETHYL-2-PYRAZOLINE
1CLODC
         1-CHLOROOCTADECANE
1CL24H
         1-CHLORO-2,4-HEXADIENE
1C3L
         1-PROPANOL
1C4L
         1-BUTANOL
1DODCL
         1-DODECANOL
1EHB
         1-ETHYLHEXYLBENZENE
1EPB
         1-ETHYLPROPYLBENZENE
1E2MB
         1-ETHYL-2-METHYLBENZENE
1E24DB
         1-ETHYL-2,4-DIMETHYLBENZENE
IFNAP
         1-FLUORONAPHTHALENE
1HPDOL
         1-HEPTADECANOL
1HXE
         1-HEXENE
1HX3OL
         1-HEXEN-3-OL
1MBAAN
         1-METHYLBENZ [A] ANTHRACENE
IMCPNE
         1-METHYLCYCLOPENTENE
         1-METHYLDECYLBENZENE
1MDB
         1-METHYLETHYLCYCLOHEXANE
1MECHX
1MECPR
         1-METHYLETHYLCYCLOPROPANE
1MEIND
         1-METHYLINDAN
1MFLRE
         1-METHYL-9H-FLUORENE
1MNAP
         1-METHYLNAPHTHALENE
1MNB
         1-METHYLNONYLBENZENE
1MPRB
         (1-METHYLPROPYL) BENZENE
IMPYR
         1-METHYLPYRENE
1MX1PE
         1-METHOXY-1-PROPENE
1M2PEC
         1-METHYL-2-(2-PROPENYL) CYCLOPENTANE
1M7MEN
         1-METHYL-7-(1-METHYLETHYL) NAPHTHALENE
1NHP
         1-NITROHEPTANE
1NKCL
         1.0 N POTASSIUM CHLORIDE
1N2ONE
         1-NITRO-2-OCTANONE
10CTOL
         1-OCTANOL
1PECHX
         1-PROPENYLCYCLOHEXANE
1PNAP
         1-PHENYLNAPHTHALENE
1TBCHA
         1-T-BUTYLCYCLOHEXANECARBOXYLIC ACID
10CUDM
         10-CYCLOPENTYLUNDECANOIC ACID, METHYL ESTER
10MEOH
         10% METHANOL
         10-METHYLUNDECANOIC ACID, METHYL ESTER
10MUDM
         10-OCTADECENOIC ACID, METHYL ESTER
100EME
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licipe
         1,1-DICHLORO-1-PROPENE
11DCE
         1,1-DICHLOROETHYLENE / 1,1-DICHLOROETHENE
11DCLE
         1,1-DICHLOROETHANE
lidmeb
         (1,1-DIMETHYLETHYL) BENZENE
11DPH
         1,1-DIPHENYLHYDRAZINE
         1,1,1-TRICHLOROETHANE
111TCE
112TCE
         1,1,2-TRICHLOROETHANE
         1,1,3-TRIMETHYLCYCLOHEXANE
113MCH
12DBD4
         1,2-DICHLOROBENZENE-D4.
12DBRE
         1.2-DIBROMOETHANE
12DCD4
         1,2-DICHLOROETHANE-D4
        *1,2-DICHLOROETEYLENES (CIS AND TRANS ISOMERS)
12DCE
12DCLB
         1,2-DICHLOROBENZENE
12DCLE
         1,2-DICHLOROETHANE
12DCLP
         1,2-DICELOROPROPANE
         1,2-DIMETHYLBENZENE / O-XYLENE
12DMB
12DNAP
         1,2-DIMETHYLNAPHTHALENE
12DPB
         1,2-DIPHENYLBENZENE
12DPH
         1,2-DIPHENYLHYDRAZINE
12EPCH
         1,2-EPOXYCYCLOHEXENE / CYCLOHEXENE OXIDE
12EPEB
         1,2-EPOXYETHYLBENZENE / STYRENE OXIDE
         12-METHYLTETRADECANOIC ACID, METHYL ESTER
12MTDM
12TMCP
         1,1,2,2-TETRAMETHYLCYCLOPROPANE
         1,2,3-TRICHLOROPROPANE
123CPR
         1,2,3-TRIMETHYLCYCLOHEXANE
123MCH
         1,2,3-TRICHLOROBENZENE
123TCB
         1,2,3-TRIMETHYLBENZENE
123TMB
         1,2,3,4-TETRAMETHYLBENZENE
1234MB
124MCH
         1,2,4-TRIMETHYLCYCLOHEXANE
124TCB
         1,2,4-TRICHLOROBENZENE
         1,2,4-TRIMETHYLBENZENE
124TMB
13CPDO
         1,3-CYCLOPENTADIONE
13DBD4
         1,3-DICHLOROBENZENE-D4
         1,3-DICHLOROBENZENE
13DCLB
         1,3-DICHLOROPROPANE
13DCP
13DCPE
         1,3-DICHLOROPROPENE
13DEB
         1,3-DIETHYLBENZENE
13DFB
         1,3-DIFLUOROBENZENE
13DMB
         1,3-DIMETHYLBENZENE / M-XYLENE
13DMBB
         (1,3-DIMETHYLBUTYL) BENZENE
13DMCH
         1,3-DIMETHYLCYCLOHEXANE
13DNAP
         1,3-DIMETHYLNAPHTHALENE
         1,3-DINITROBENZENE
13DNB
         1,3-DIPHENYLPROPANE / 1,1'-(1,3-PROPANEDIYL) BIS | BENZENE-
13DPPR
         13-TETRADECYNOIC ACID, METHYL ESTER
13TDAM
         1,3,5-TRIMETHYLCYCLOHEXANE
135MCH
         1,3,5-TRIMETHYLBENZENE
135TMB
135TNB
         1,3,5-TRINITROBENZENE
14DACB
         1,4-DIACETYLBENZENE
14DBD4
         1,4-DICHLOROBENZENE-D4
         1,4-DICHLOROBUTANE
14DCBU
         1,4-DICHLOROBENZENE
14DCLB
         1,4-DIFLUOROBENZENE
14DFB
14DIOX
         1,4-DIOXANE
         1,4-DIMETHYLCYCLOHEXANE
14DMCH
14DMNP
         1,4-DIHYDRO-1,4-METHANONAPHTHALENE
14DMXA
         1,4-DIMETHOXYANTHRACENE
14DNB
         1,4-DINITROBENZENE
14D2EB
         1,4-DIMETHYL-2-ETHYLBENZENE
14HXDE
         1.4-HEXADIENE
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14MPME
         14-METHYLPENTADECANIC ACID, METHYL ESTER
15DNAP
       1,5-DIMETHYLNAPHTHALENE
15MHME
         15-METHYLHEXADECANOIC ACID, METHYL ESTER
16DMIN
         1,6-DIMETHYLINDAN
16DNAP
         1,6-DIMETHYLNAPHTHALENE
         16-METHYLHEPTADECANOIC ACID, METHYL ESTER
16MHME
167TMN
         1,6,7-TRIMETHYLNAPHTHALENE
17PTCE
         17-PENTATRIACONTENE
18DNAP
         1,8-DIMETHYLNAPHTHALENE
18018D
         1,2,3,4,4A,5,8,8A-OCTAHYDRO-1,4,5,8-DIMETHANOLNAPHTHALEN-
            2-OL
2A46DA
         2-AMINO-4,6-DINITROANILINE
2A46DT
         2-AMINO-4,6-DINITROTOLUENE
2BEETO
         2-(2-N-BUTOXYETHOXY) ETHANOL
2BEMDE
         2,2-BIS (ETHYLMERCAPTO) DIETHYL ETHER
         2,2-BIS (METHYLMERCAPTO) PROPANE
2BMMPR
2BNMNN:
         2-BUTYL-N-METHYLNORLEUCINE, METHYL ESTER
2BRHXA
         2-bromohexanoic acid
2BUTHF
         2-BUTYLTETRAHYDROFURAN
2BUXEL
         2-BUTOXYETHANOL
2BlCP
         2-BROMO-1-CHLOROPROPANE
2B100L
         2-BUTYL-1-OCTANOL
2B4MFU
         2-(T-BUTYL)-4-METHYLFURAN
2CBMN
         2-CHLOROBENZYLIDINEMALONONITRILE
2CECHO
         2-(2-CYANOETHYL) CYCLOHEXANONE
2CHAEE
         2-CYCLOPENTENE-1-HENDECANOIC ACID, ETHYL ESTER
2CHE1L
         2-CYCLOHEXEN-1-OL
2CHE10
         2-CYCLOHEXEN-1-ONE
2CLBP
         2-CHLOROBIPHENYL
         2-CHLOROETHYLVINYL ETHER / (2-CHLOROETHOXY) ETHENE
2CLEVE
2CLP
         2-CHLOROPHENOL
2CLPD4
         2-CHLOROPHENOL-D4
2CLT
         2-CHLOROTOLUENE
2CMCHO
         2-(CYANOMETHYL) CYCLOHEXANONE
2CNAP
         2-CHLORONAPHTHALENE
2C4E
         2-BUTENE
2C6MPZ
         2-CHLORO-6-METHOXY-10H-PHENOTHIAZINE
2C70
         2-HEPTANONE / METHYLPENTYL KETONE
2DMPEN
         2,2-DIMETHYLPENTANE
2ECYBL
         2-ETHYLCYCLOBUTANOL
2EC6A
         2-ETHYLHEXANOIC ACID
2EP
         2-ETHYLPHENOL
2E1HXL
         2-ETHYL-1-HEXANOL
2E2HPD
         2-ETHYL-2-HYDROXYMETHYL-1,3-PROPANEDIOL
2E4MPL
         2-ETHYL-4-METHYL-1-PENTANOL
2FBP
         2-FLUOROBIPHENYL
2FNAP
         2-FLUORONAPHTHALENE
2FP
         2-FLUOROPHENOL
         2-HYDROXYBUTANEDIOIC ACID, DIMETHYL ESTER
2HBDDM
         2-HYDROXYBENZALDEHYDE / SALICYLALDEHYDE
2HBNZL
         2-HENDECANOL / 2-UNDECANOL
2HNDOL
2HYBP
         2-HYDROXYBIPHENYL
         2-METHYLBENZYL ALCOHOL
2MBZA
2MCPNE
         2-METHYLCYCLOPENTANONE
2MCYPL
         2-METHYLCYCLOPENTANOL
2MC3
         2-METHYLPROPANE / ISOBUTANE
         2-METHYLBUTANE / ISOPENTANE
2-METHYLHEXANE / ISOHEPTANE
2MC4
2MC6
2MC7
         2-METHYLHEPTANE / ISOOCTANE
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2-METHYLDECANE

2MDEC

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2MDOD
         2-METHYLDODECANE
         2-(1-METHYLETHYL) NAPHTHALENE
2MENAP
2MEPEN
         2-METHYLPENTANE
2MMECO
         2-METHYL-5-(1-METHYLETHYL)-2-CYCLOHEXEN-1-ONE
2MNAP
         2-METHYLNAPHTHALENE
         2-METHYLPHENOL / 2-CRESOL
2MP
2MPAHT
         2-METHYLPROPANOIC ACID, 3-HYDROXY-2,4,4-TRIMETHYLPENTYL
         2-METHYLPROPANOIC ACID, METHYL ESTER
2MPAME
         2-METHYLPROPANOIC ACID, 1-(1,1-DIMETHYLETHYL)-2-METHYL-
2MPA1E
            1.3-PROPANEDIYL ESTER
2MPEAE
         2-METHYL-2-PROPENOIC ACID, 1,2-ETHANEDIYL ESTER
2MPYR
         2-METHYLPYRENE
2MTETD
         2-METHYLTETRADECANE
2MTHF
         2-METHYLTETRAHYDROFURAN
2MTHPM
         2-METHYLTHIO-4-HYDROXYPYRIMIDINE
2MXEXL
         2-(2-METHOXYETHOXY) ETHANOL / DIETHYLENEGYLCOL
            MONOMETHYLETHER
         2-METHOXY-2-METHYLPROPANE / TEXT-BUTYLMETHYL ETHER
2MXMC3
2MXTMB
         2-METHOXY-2,3,3-TRIMETHYLBUTANE
ZMX1PE
         2-METHOXY-1-PROPENE
2M1DDL
         2-METHYL-1-DODECANOL
2M1PNE
         2-METHYL-1-PENTENE
2M2BDA
         2-METHYL-2-BUTENEDIAMIDE
2M2C3L
         2-METHYL-2-PROPANOL / TERT-BUTANOL
2M2H3B
         2-METHYL-2-HYDROXY-3-BUTYNE
2M24P
         2-METHYL-2, 4-PENTANEDIOL
         2-METHYL-3-HEXENE
2M3HXE
2M3PNO
         2-METHYL-3-PENTANONE
2NANIL
         2-NITROANILINE
2NBZLZ
         2-NITROBENZALAZINE
2NKCL
         2.0 N POTASSIUM CHLORIDE
2NNDPA
         2-NITRO-N-NITROSODIPHENYLAMINE
2NODCO
         2-NONADECANONE
         2-NITROPHENOL
2NP
2NT
         2-NITROTOLUENE
         2-NITRO-3-CRESOL / 3-METHYL-2-NITROPHENOL
2N3C
2PETOH
         2-PHENYLETHANOL
2PHXEL
         2-PHENOXYETHANOL
2PNAP
         2-PHENYLNAPHTHALENE
2PROL
         2-PROPANOL
2PXEXL
         2-(2-PHENOXYETHOXY) ETHANOL
2TCLEA
         1,1,1,2-TETRACHLOROETHANE
2TMHPD
         2,6,10,14-TETRAMETHYLHEPTADECANE
2TMPD
         2,6,10,14-TETRAMETHYLPENTADECANE
210DMU
         2,10-DIMETHYLUNDECANE
         2,2-DIMETHYLBUTANE
22DMC4
         2,2',5-TRICHLOROBIPHENYL
225TCB
         2,2',5,5'-TETRACHLOROBIPHENYL
2255CB
226TMO
         2,2,6-TRIMETHYLOCTANE
23C1PE
         2,3-DICHLORO-1-PROPENE
23DCLP
         2,3-DICHLOROPHENOL
23DMC4
         2,3-DIMETHYLBUTANE
         2,3-DIMETHYLPENTANE
23DMC5
         2,3-DIMETHYLPHENOL
23DMP
23DNAP
         2,3-DIMETHYLNAPHTHALENE
         2,3-DIMETHYL-2-HEXANOL
23D2HL
23TMP
         2,2,3,3-TETRAMETHYLPENTANE
2345CB
         2.3.4.5-TETRACHLOROBIPHENYL
         2,3,4,6-TETRACHLOROPHENOL
2346CP
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235TMD
         2,3,5-TRIMETHYLDECANE
2356CP
         2,3,5,6-TETRACHLOROPHENOL
236TMN
         2,3,6-TRIMETHYLNAPHTHALENE
237TMO
         2,3,7-TRIMETHYLOCTANE
24D
         2,4-DICHLOROPHENOXYACETIC ACID
24DCB
         2,4'-DICHLOROBIPHENYL
24DCLP
         2,4-DICHLOROPHENOL
24DMC5
         2,4-DIMETHYLPENTANE
24DMD
         2,4-DIMETHYLDECANE
24DMHX
         2,4-DIMETHYLHEXANE
24DMPN
         2,4-DIMETHYLPHENOL
24DNP
         2,4-DINITROPHENOL
24DNT
         2,4-DINITROTOLUENE
24M2PL
         2,4-DIMETHYL-2-PENTANOL
24NPD3
         2,4-DINITROPHENOL-D3
24T13P
         2,2,4-TRIMETHYL-1,3-PENTANEDIOL
245PCB
         2,2'4,5,5'-PENTACHLOROBIPHENYL
245T
         2,4,5-TRICHLOROPHENOXYACETIC ACID
245TCP
         2,4,5-TRICHLOROPHENOL
         2,4,6-TRIMETHYLPYRIDINE
246MPY
246TBP
         2,4,6-TRIBROMOPHENOL
246TCA
         2,4,6-TRICHLOROANILINE
246TCP
         2,4,6-TRICHLOROPHENOL
246TMO
         2,4,6-TRIMETHYLOCTANE
         2,4,6-TRINITROPHENOL / PICRIC ACID
246TNP
         2,4,6-TRINITROKESORCINOL / STYPHNIC ACID
246TNR
246TNT
         2,4,6-TRINITROTOLUENE
247HOI
         2,2,4,4,7,7-HEXAMETHYLOCTAHYDRO-15-1NDENE
247TMO
         2,4,7-TRIMETHYLOCTANE
25C14D
         2,5-CYCLOHEXADIEN-1,4-DIONE
25DCLP
         2,5-DICHLOROPHENOL
25DMP
         2,5-DIMETHYLPHENOL
25DMPA
         2,5-DIMETHYLPHENANTHRENE
         2,5-DIMETHYLTETRAHYDROFURAN
25DTHF
         2,2',3,4,5,5',6-HEPTACHLOROBIPHENYL
25HPCB
         2,2',3,4,5,5'-HEXACHLOROBIPHENYL
25HXCB
250CCB
         2,2',3,3',4,4',5,5'-OCTACHLOROBIPHENYL
256TMD
         2,5,6-TRIMETHYLDECANE
         2,6-DI-T-BUTYL-4-METHYLPHENOL
26DBMP
         2,6-DICHLOROPHENOL
26DCLP
26DMO
         2,6-DIMETHYLOCTANE
         2,6-DIMETHYLPHENOL
26DMP
26DMST
         2,6-DIMETHYLSTYRENE
26DMUD
         2,6-DIMETHYLUNDECANE
26DNA
         2,6-DINITROANILINE
         2,6-DINITROTOLUENE
26DNT
         2,2',3,4,4',5,6-HEPTACHLOROBIPHENYL
26HPCB
2611MD
         2,6,11-TRIMETHYLDODECANE
27DMO
         2,7-DIMETHYLOCTANE
27DNAP
         2,7-DIMETHYLNAPHTHALENE
29DMUD
         2,9-DIMETHYLUNDECANE
3BPETH
         3-BUTENYLPENTYL ETHER
3CHXD
         3-CYCLOHEXYLDECANE
3CLP
         3-CHLOROPHENOL
3CLT
         3-CHLOROTOLUENE
3CMCH
         3-(CHLOROMETHYL) CYCLOHEXENE
3C1C3E
         3-CHLORO-1-PROPENE / ALLYL CHLORIDE
3DCHEO
         3,5-DIMETHYL-2-CYCLOHEXEN-1-ONE
3EEBOD
         3-ETHYL-5-(2-ETHYLBUTYL) OCTADECANE
3EE2BO
          3,4-EPOXY-3-ETHYL-2-BUTANONE
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3EHXDE
         3-ETHYL-1, 4-HEXADIENE
3EP
         3-ETHYLPHENOL
         3-ETHYL-2,2-DIMETHYLPENTANE / 3-(T-BUTYL)-PENTANE
3E22MP
3E25DH
         3-ETHYL-2.5-DIMETHYL-3-HEXENE
3HDMPL
         3-(HYDROXYMETHYL)-4,4-DIMETHYLPENTANAL
3HDMPT
         3-HYDROXY-2,7-DIMETHYL-4-{3H}-PTERIDINONE
3HXE2O
         3-HEXEN-2-ONE
3MBP
         3-METHYLBIPHENYL
3MCHRY
         3-METHYLCHRYSENE
3MC6
         3-METHYLHEXANE
3MEPEN
         3-METHYLPENTANE
         3-METHYLPHENOL / 3-CRESOL
         3-METHYLPHENANTHRENE
3mpanr
3MUND
         3-METHYLUNDECANE
3MXIMZ
         3-METHOXYIMIDAZOLE
3MXT
         3-METHOXYTOLUENE
3M1PL
         3-METHYL-1-PENTANOL
3M2CHO
         3-METHYL-2-CYCLOHEXEN-1-ONE
3M2C10
         3-METHOXY-2-CYCLOPENTEN-1-ONE
3M2C5E
         3-METHYL-2-PENTENE
3M2HXL
         3-METHYL-2-HEXANOL
3M5PNN
         3-METHYL-5-PROPYLNONANE
3NANIL
         3-NITROANILINE
3NT
         3-NITROTOLUENE
30CTOL
         3-OCTANOL
         3-OXO-3-PHENYLPROPANOIC ACID, ETHYL ESTER
30PPAE
         3-PHENYLPROPANOYL CHLORIDE / HYDROCINNAMYL CHLORIDE
3PC3AC
         3-PROPYLTOLUENE
3PT
3S5E3L
         (3BETA) -STIGMAST-5-EN-3-OL
3TBUP
         3-(T-BUTYL) PHENOL
3TCHEO
         3,5,5-TRIMETHYL-2-CYCLOHEXEN-1-ONE
33DCBD
         3,3'-DICHLOROBENZIDINE
         3,3-DIMETHYLHEXANE
33DMHX
         3,3-DIMETHYLPENTANE
33DMPN
34CBD6
         3,3',4,4'-TETRACHLOROBIPHENYL-D6
34DCLP
         3,4-DICHLOROPHENOL
34DMP
         3,4-DIMETHYLPHENOL
         3,4-DIMETHYL-1-DECENE
34D1DE
         3,4,4-TRIMETHYL-2-PENTENE
344TPE
         3,4,5-TRIMETHYL-1-HEXENE
345T1H
         3,5-DIMETHYLPHENOL
35DMP
35DNA
         3,5-DINITROANILINE
35DNP
         3,5-DINITROPHENOL
35DNT
         3,5-DINITROTOLUENE
35M3HL
         3,5-DIMETHYL-3-HEXANOL
36DF90
         3,6-DICHLOROFLUOREN-9-ONE
         3,4,5,6-TETRAMETHYLPHENANTHRENE
36TMPA
         3,7-DIMETHYLNONANE
37DMNN
38DMUD
         3,8-DIMETHYLUNDECANE
4AMORP
         4-ACETYLMORPHOLINE
4A35DT
         4-AMINO-3,5-DINITROTOLUENE
4BFB
         4-BROMOFLUOROBENZENE
4BRPPE
         4-BROMOPHENYLPHENYL ETHER
4B3P2O
         4-BUTOXY-3-PENTEN-2-ONE
4CANIL
         4-CHLOROANILINE
         4-CHLOROCYCLOHEXANOL
4CCHXL
4CLPPE
         4-CHLOROPHENYLPHENYL ETHER
4CLT
         4-CHLOROTOLUENE
4CL2C
         4-CHLORO-2-CRESOL / 2-METHYL-4-CHLOROPHENOL
         4-CHLORO-3-CRESOL / 3-METHYL-4-CHLOROPHENOL
4CL3C
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4C3MBE
         4-CHLORO-3-METHYL-1-BUTENE
4DM2PL
        4,4-DIMETHYL-2-PENTANOL
4ETMHP
         4-ETHYL-2,2,6,6-TETRAMETHYLHEPTANE
4E2OCE
         4-ETHYL-2-OCTENE
4FANIL
         4-FLUOROANILINE
4FT
         4-FLUOROTOLUENE
4HAZOB
         4-HYDROXYAZOBENZENE
4HYBA
         4-HYDROXYBENZALDEHYDE
         4-HYDROXY-3-METHOXYBENZALDEHYDE / VANILLIN
4H3MBA
4H35BA
         4-HYDROXY-3,5-DIMETHOXYBENZALDEHYDE
4IOMQU
         4-IODOMETHYLQUINULCIDINE
4MBP
         4-METHYLBIPHENYL
4MBSA
         4-METHYLBENZENE SULFONAMIDE
4MC7
         4-METHYLHEPTANE
4MDBFU
         4-METHYLDIBENZOFURAN
4MENPA
         4-(1-METHYLETHYL)-N-PHENYLANILINE
4MFLRE
         4-METHYL-9H-FLUORENE
4MMBHE
         4-METHYL-1-(1-METHYLETHYL)-BICYCLO {3.1.0} HEX-2-ENE
         4-METHYLPHENOL / 4-CRESOL
4MPANR
         4-METHYLPHENANTHRENE
4MPYR
         4-METHYLPYRENE
4MXCHL
         4-METHOXYCYCLOHEXANOL
4MXP
         4-METHOXYPHENOL
4M2PPL
         4-METHYL-2-PROPYL-1-PENTANOL
4NANIL
         4-NITROANILINE
4NP
         4-NITROPHENOL
         4-T-BUTYL-2-CRESOL / METHYL-4-(T-BUTYL) PHENOL
4TBU2C
4TOP
         4-T-OCTYLPHENOL
41MEHP
         4-(1-METHYLETHYL) HEPTANE
         4,4'-DICHLOROBENZOPHENONE
44DCBZ
         4,4'-DIFLUOROBENZOPHENONE
44DFBZ
44DMPE
         4,4-DIMETHYL-2-PENTENE
         4,4-DIMETHYLUNDECANE
44DMUD
         4,6-DINITRO-2-CRESOL / METHYL-4,6-DINITROPHENOL
46DN2C
468T1N
         4,6,8-TRIMETHYL-1-NONENE
47DMUD
         4,7-DIMETHYLUNDECANE
48DMHD
         4,8-DIMETHYLHENDECANE
5CL2C
         5-CHLORO-2-CRESOL / 2-METHYL-5-CHLOROPHENOL
5E2MHP
         5-ETHYL-2-METHYLHEPTANE
5E5MD
         5-ETHYL-5-METHYLDECANE
5M2HXO
         5-METHYL-2-HEXANONE
5M5HAL
         5-METHYL-5-HYDROXYHEXANOIC ACID LACTONE
5N2OL
         5-NORBOREN-2-OL
5PTRID
         5-PROPYLTRIDECANE
         50% HEXANE - 50% ACETONE
50H50A
         50% METHYLENE CHLORIDE - 50% ACETONE
50M50A
         50% WATER - 25% METHANOL - 25% ACETONITRILE
50WMAN
6CL3C
         6-CHLORO-3-CRESOL / 3-METHYL-6-CHLOROPHENOL
         6-ETHYL-6-METHYLFULVENE
6E6MFV
6MEPUR
        6-METHYLPURINE
6MTRID
        6-METHYLTRIDECANE
6M3HPL
        6-METHYL-3-HEPTANOL
        6-T-BUTYL-2-CRESOL / 2-METHYL-6-(T-BUTYL) PHENOL
6TBU2C
7MTRID
        7-METHYLTRIDECANE
8MNNDL
       8-METHYL-1,8-NONANEDIOL
9FLENO
         9-FLUORENONE
9MBAAN
         9-METHYLBENZ (A) ANTHRACENE
9MXANT
         9-METHOXYANTHRACENE
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* DENOTES GENERIC TEST NAME

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(ALPHABETIC SORT BY TEST-NAMES)

BZAPAN

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ANAPNE
        ACENAPHTHENE
ACND10
        ACENAPHTHENE-D10
ANAPYL
         ACENAPHTHYLENE
AACHXE
         ACETIC ACID, CYCLOHEXYL ESTER
         ACETIC ACID, ETHYL ESTER / ETHYL ACETATE
C2AEE
C2AVE
         ACETIC ACID, VINYL ESTER / VINYL ACETATE
ACET
         ACETONE
CH3CN
        ACETONITRILE
ACPHN
        ACETOPHENONE
ACIDIT *ACIDITY
ACDHMW *ACIDS (HIGH MOLECULAR WEIGHT)
ACROLN ACROLEIN
ACRYLO ACRYLONITRILE
DM
         ADAMSITE
ALHMW
        *ALCOHOLS (HIGH MOLECULAR WEIGHT)
ALDEHY *ALDEHYDES
ALDRN
        ALDRIN
ALAL
        *ALIPHATIC ALCOHOLS
ALHC
        *ALIPHATIC HYDROCARBONS
ALK
        FALKALINITY
ALKBIC *ALKALINITY, BICARBONATE
ALKCAR *ALKALINITY, CARBONATE
ALKHYD *ALKALINITY, HYDROXIDE
ALKN
        *ALKANES
AYLETH
        ALLYL ETHER
         ALPHA-BENZENEHEXACHLORIDE / ALPHA-HEXACHLOROCYCLOHEXANE
ABHC
         ALPHA-ENDOSULFAN / ENDOSULFAN I
AENSLF
         ALPHA-METHYLBENZYL ACETOACETATE
MBZA
         ALPHA-METHYLBENZYL ALCOHOL
MBOH
         ALPHA-METHYLBENZYL-2-CHLOROACETOACETATE
MBZCL
         ALPHA, ALPHA-DIMETHYLBENZENEMETHANOL
BZAL2M
AL
         ALUMINUM
NH3
         AMMONIA
NH3N2
         AMMONIA NITROGEN
ADHP
         AMMONIUM DIHYDROGEN PHOSPHATE
ANIL
         ANILINE
ANELNT
        *ANION ELUENT
ANTRC
         ANTHRACENE
ACHE
         ANTICHOLINESTERASE
SB
         ANTIMONY
AS
        ARSENIC
ASEXT
        *ARSENIC, EXTRACTABLE
ASTOT
        *ARSENIC, TOTAL
         ASBESTOS
ASBEST
ANTROU
         ATHRAQUINONE / 9,10-ANTHRACENEDIONE
ATZ
         ATRAZINE
AZACN
         AZACYLONONANE
         BARIUM
BA
         BENZALDEHYDE
BENZAL
BENZA
         BENZANTHRONE
         BENZENE
C6H6
BZPA
         BENZENEPHOSPHONIC ACID
         BENZENE-D6
C6D6
         BENZFLUORANTHENE
BZFANT
BENZID
         BENZIDINE
         BENZO (A) ANTHRACENE
BAANTR
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BENZO (A) PHENANTHRENE

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BBFANT
            BENZO [A] PYRENE
            BENZO (B) FLUORANTHENE
BBFANT BENZO [B] FLUORANTHENE
BBFLRE BENZO [B] FLUORENE
BBNTHP BENZO [B] NAPHTHO [1,2-D] THIOPHENE
BZOTHP BENZO [B] THIOPHENE
BZCPAN BENZO [C] PHENANTHRENE
BGHIFA BENZO [G,H,I] FLUROANTHENE
BGHIPY BENZO [G,H,I] PERYLENE
BZHQUN BENZO [H] QUINOLINE
BJFANT BENZO [J] FLUORANTHENE
BKFANT BENZO [K] FLUORANTHENE
BF2ANT BENZOBIFLUOROANTHENE
BENZOA BENZOIC ACID
BZOAME BENZOIC ACID, METHYL ESTER / METHYL
BZOAME BENZOIC ACID, METHYL ESTER / METHYL BENZOATE
BTZ
BTZ BENZOTHIAZOLE
BZALC BENZYL ALCOHOL
BZYLBR BENZYL BROMIDE / ALPHA-BROMOTOLUENE
         BERYLLIUM
ΒE
          BETA-BENZENEHEXACHLORIDE / BETA-HEXACHLOROCYCLOHEXANE
BBHC
BENSLF BETA-ENDOSULFAN / ENDOSULFAN II
HCO3 BICARBONATE
BCHPD BICYCTO
HCO3
          BICYCLO {2,2,1} HEPTA-2,5-DIENE
BCY3HX BICYCLO [3,1,0] HEXANE
BICYHX BICYCLOHEXYL
           BINAPHTHYL
BINAP
BOD
           *BIOLOGICAL OXYGEN DEMAND
BCMSO2 BIS (CARBOXYMETHYL) SULFONE
BCMSO BIS (CARBOXYMETHYL) SULFOXIDE
BCLME BIS (CHLOROMETHYL) ETHER
          BIS (DIISOPROPYLAMINO) ETHANETHIOL
DIAET
DIAEL
          BIS (DIISOPROPYLAMINO) ETHANOL
DIADS BIS (DIISOPROPYLAMINO) ETHYLDISULFIDE
          BIS (DIISOPROPYLAMINO) ETHYLSULFIDE
DIAS
DIASO2 BIS (DIISOPROPYLAMINO) ETHYLSULFONATE
C185FP BIS (PENTAFLUOROPHENYL) PHENYL PHOSPHINE
BTMSOA BIS (TRIMETHYLSILYL) OXALIC ACID
B2CEXM BIS (2-CHLOROETHOXY) METHANE
B2CLEE BIS (2-CHLOROETHYL) ETHER
 B2CIPE
            BIS (2-CHLOROISOPROPYL) ETHER
            BIS (2-ETHYLHEXYL) PHTHALATE
B2EHP
BLDX
            BLADEX
            BORON
 BRMCIL
            BROMACIL
 BRC6H5
            BROMOBENZENE
 BRCLM
            BROMOCHLOROMETHANE
 BRDCLM
            BROMODICHLOROMETHANE
 CHBR3
            BROMOFORM
 CH3BR
            BROMOMETHANE
 C4
            BUTANE
 BDADME
            BUTANEDIOIC ACID, DIMETHYL ESTER
 BAHXE
            BUTANOIC ACID, 1-HEXYL ESTER
 BUC6H5
            BUTYLBENZENE
            BUTYLBENZYL PHTHALATE
 BBZP
 BUEETH
            BUTYLETHYL ETHER
 BMP
            BUTYLMETHYL PHTHALATE
 BPBG
            BUTYLPHTHALYL BUTYLGLYCOLATE
 CD
            CADMIUM
 CA
            CALCIUM
 CACO3S *CALCIUM CARBONATE SOLUTION
 CAMP
          CAMPHOR
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CAPLCT CAPROLACTAM / 6-AMINOHEXANOIC ACID LACTAM
CAME CARBAMIC ACID, METHYL ESTER
CS2
        CARBON DISULFIDE
CMONOX CARBON MONOXIDE
CCL4
        CARBON TETRACHLORIDE
CO3
       CARBONATE
Cladme carbonic acid, dimethyl ester
CEC *CATION EXCHANGE CAPACITY
CS
       CESIUM
COD
       *CHEMICAL OXYGEN DEMAND
CLO3
       CHLORATE
CLDAN
       CHLORDANE
CLDEN
       CHLORDENE
CL
        CHLORIDE
      *CHLORINATED BENZENES
CLXB
CLXNAP *CHLORINATED NAPHTHALENES
      CHLORINE
CL2
       *CHLORINE DEMAND
CLD
CLNAP *CHLORO NAPHTHALENES
CLP
      *CHLORO PHENOLS
CLC2A CHLOROACETIC ACID
CN
        CHLOROACETOPHENONE
CLC6H5 CHLOROBENZENE
CLC6D5 CHLOROBENZENE-D5
CLCYHX CHLOROCYCLOHEXANE
CCLF2
        CHLORODIFLUOROMETHANE
CDNBIS *CHLORODINITROBENZENE ISOMER
C2H5CL CHLOROETHANE
C2H3CL CHLOROETHENE / VINYL CHLORIDE
CHCL3
        CHLOROFORM
       CHLOROFORM-D
CDCL3
CH3CL
        CHLOROMETHANE
        CHOLESTANE
CHOLA
CRO4
        CHROMATE
CR
        CHROMIUM
CHRY
        CHRYSENE
CYSD12
        CHRYSENE-D12
CBCCH
        CIS-1-BROMO-2-CHLOROCYCLOHEXANE
CDACH
        CIS-1,2-DIACETOXYCYCLOHEXANE
C12DCE CIS-1,2-DICHLOROETHENE
C13DCP
        CIS-1,3-DICHLOROPROPYLENE / CIS-1,3-DICHLOROPROPENE
C4HX1L
        CIS-4-HEXEN-1-OL
CO
        COBALT
CU
        COPPER
CUEXT
        *COPPER, EXTRACTABLE
CUTOT
        *COPPER, TOTAL
COUMRN
        COUMARAN / 2,3-DIHYDROBENZOFURAN
CSOL
        *CRESOLS
CYN
        CYANIDE
        *CYANIDE, FREE FORM
CYNF
        CYANOGEN CHLORIDE
CK
CYDODC CYCLODODECANE
        CYCLOHEXANE
CYHX
         CYCLOHEXANOL
C6HOH
CHONE
         CYCLOHEXANONE
CYHXB
         CYCLOHEXYLBENZENE / PHENLYCYCLOHEXANE
CYOCTE
         CYCLOOCTATETRAENE
CYPD
         CYCLOPENTADIENE
CPCXAL
         CYCLOPENTANECARBOXALDEHYDE
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CYCLOPENTANONE

CPO

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CYPNE
         CYCLOPENTENE
HMX
         CYCLOTETRAMETHYLENETETRANITRAMINE
RDX
         CYCLOTRIMETHYLENETRINITRAMINE / CYCLONITE
C18UNS
        *C18H300 UNKNOWN
C22UNS
        *C22H400 UNKNOWN
F10BP
         DECAFLUOROBIPHENYL
DCMPSX
         DECAMETHYLCYCLOPENTASILOXANE
C10
         DECANE
DECYLB
         DECYLBENZENE
DIH20
         DEIONIZED WATER
DBHC
         DELTA-BENZENEHEXACHLORIDE / DELTA-HEXACHLOROCYCLOHEXANE
DIACAL
         DIACETONE ALCOHOL / 4-HYDROXY-4-METHYL-2-PENTANONE
DIAZ
         DIAZINON
DBABA
         DIBENZ [A,B] ANTHRACENE
DBAHA
         DIBENZ (A, H) ANTHRACENE
DBZFUR
         DIBENZOFURAN
DBZTHP
         DIBENZOTHIOPHENE
DBRCLM
         DIBROMOCHLOROMETHANE
DBCP
         DIBROMOCHLOROPROPANE
DBUCLE
         DIBUTYLCHLORENDATE
CL2BZ
        *DICHLORO BENZENES
CL2BP
        *DICHLORO BIPHENYLS
        *DICHLORO NAPHTHALENES
CL2NAP
DICLP
        *DICHLORO PHENOLS
CL2ACN
         DICHLOROACETONITRILE
DCBPH
         DICHLOROBENZOPHENONE
CCL2F2
         DICHLORODIFLUOROMETHANE
ED
         DICHLOROETHYL ARSINE
PD
         DICHLOROPHENYL ARSINE
DCHP
         DICYCLOHEXYL PHTHALATE
DCPD
         DICYCLOPENTADIENE
DLDRN
         DIELDRIN
DEDMP
         DIETHYL DIMETHYL DIPHOSPHONATE
         DIETHYL ETHER
DEETH
         DIETHYL PHTHALATE
DEP
DEPD4
         DIETHYL PHTHALATE-D4
DEA
         DIETHYLAMINE
         DIETHYLENE GLYCOL / 2,2-OXY BIS {ETHANOL}
DEGLYC
         DIISOBUTYL PHTHALATE
DIBP
DIOP
         DIISOOCTYL PHTHALATE
DIDDP
         DIISOPROPYL DIMETHYL DIPHOSPHONATE
DIPETH
         DIISOPROPYL ETHER
DIPUR
         DIISOPROPYL UREA
DIMP
         DIISOPROPYLMETHYL PHOSPHONATE
DMXDMS
         DIMETHOXY DIMETHYLSILANE
ME2AEA
         DIMETHYL ARSENIC ACID
DMDS
         DIMETHYL DISULFIDE
DMCAR
         DIMETHYL DITHIOCARBONATE
DMETH
         DIMETHYL ETHER
DMIP
         DIMETHYL ISOPHTHALATE
ME2HG
         DIMETHYL MERCURY
ME2NAP *DIMETHYL NAPHTHALENES
         DIMETHYL PHTHALATE
DMP
ME2C11 *DIMETHYL UNDECANES
DMMP
         DIMETHYLMETHYL PROSPEATE
DNTISO
        *DINITROTOLUENE ISOMER
DOAD
         DIOCTYL ADIPATE
DOAZ
         DIOCTYL AZELATE
DOETH
         DIOCTYL ETHER
DPHNY
         DIPHENYL
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DPETH
        DIPHENYL ETHER
         DIPHENYL SULFIDE / 1,1-THIO BIS (BENZENE)
DPSULF
DPSO
        DIPHENYL SULFOXIDE
DPA
        DIPHENYLAMINE
DSEDIN
         DISELENO DIINDOLE
        *DISSOLVED OXYGEN
HD
         DISTILLED MUSTARD / BIS (2-CHLOROETHYL) SULFIDE
DITH
         DITHIANE
DNBP
         DI-N-BUTYL PHTHALATE
         DI-N-OCTYL PHTHALATE
DNOP
         DI-N-OCTYL PHTHALATE-D4
DNOPD4
DNPP
         DI-N-PENTYL PHTHALATE
DL2HPG
         DL-2-(3-HYDROXYPHENYL) GLYCINE
C12
         DODECANE
DODECB
         DODECYLBENZENE
DOPAM
         DOPAMINE / 4-(2-AMINOETHYL) PYROCATECHOL
DURS
         DURSBAN
DPNTLL
         D-(-)-PANTOLYL LACTONE
C20
         EICOSANE
ESFSO4
         ENDOSULFAN SULFATE
ENDRN
         ENDRIN
ENDRNA
         ENDRIN ALDEHYDE
ENDRNK
        ENDRIN KETONE
ETOH
        ETHANOL
ETC6H5
        ETHYLBENZENE
ETBD10
        ETHYLBENZENE-D10
ETCYHX
        ETHYLCYCLOHEXANE
EMPA
        ETHYLMETHYL PHOSPHONIC ACID / ETHYLMETHYL PHOSPHONATE
ENHETH
       ETHYL-N-HEXYL ETHER
EBCPGL
        ETHYL-2,2-BIS (4-CHLOROPHENYL) GLYCOLATE
XPLOSV *EXPLOSIVE SPRAY
FARN
        FARNESOL
FATAL
        *FATTY ALCOHOLS
        FLUORANTHENE
FANT
FLRENE
       FLUORENE
        FLUORIDE
FC2A
        FLUOROACETIC ACID
        *FOAMING AGENTS / METHYALYNE BLUE ACTIVE SUBSTANCE
FABPEE FORMIC ACID, BETA-PHENYLETHYL ESTER
FACHXE FORMIC ACID, CYCLOHEXYL ESTER
FREON
        FREON / DICHLOROFLUOROMETHANE
DYSCAN *GC-MS DYE SCAN
MSSCAN *GC-MS ORGANIC SCAN
        GREEN DYE
GRNDY
HWX013
       HALOWAX 1013
       HALOWAX 1099
HWX099
C11
        HENDECANE
C21
        HENEICOSANE
HPCL
        HEPTACHLOR
        HEPTACHLOR EPOXIDE
HPCLE
        *HEPTACHLORO BIPHENYLS
CL7BP
        *HEPTACHLORO NORBORNADIENES
CL7NB
C7NB1
         HEPTACHLORONORBORNENE
C17
         HEPTADECANE
C17AM
         HEPTADECANOIC ACID, METHYL ESTER
C7
         HEPTANE
        HEPTANOIC ACID
C7A
CL6BP
        *HEXACHLORO BIPHENYLS
CL6BZ
        HEXACHLOROBENZENE
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c 7

HCBD

HEXACHLOROBUTADIENE

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CL6CP
         HEXACHLOROCYCLOPENTADIENE
CL6ET
         HEXACHLOROETHANE
HCNB
         HEXACHLORONORBORNADIENE
HXCOS
         HEXACOSANE
C16
         HEXADECANE
C16A
         HEXADECANOIC ACID / PALMITIC ACID
C16AEH
         HEXADECANOIC ACID, BIS (2-ETHYLHEXYL) ESTER
C16ABE
         HEXADECANOIC ACID, BUTYL ESTER
C16ADM
         HEXADECANOIC ACID, DIMETHYL ESTER
C16AME
         HEXADECANOIC ACID, METHYL ESTER
HXMTSX
         HEXAMETHYLCYCLOTRISILOXANE
HXMETA
         HEXAMETHYLENETETRAMINE / 1,3,5,7-TETRAAZATRICYCLO
            [3.3.13.7] DECANE
HEXANE
         HEXANE
HXAB2E
         HEXANEDIOIC ACID, BIS (2-ETHYLHEXYL) ESTER
HXADBE
         HEXANEDIOIC ACID, DIBUTYL ESTER / DIBUTYL ADIPATE
HXADME
         HEXANEDIOIC ACID, DIMETHYL ESTER / DIMETHYL ADIPATE
HXADOE
         HEXANEDIOIC ACID, DIOCTYL ESTER / DIOCTYL ADIPATE
C36
         HEXATRIACONTANE
CRHEX
         HEXAVALENT CHROMIUM
HPLH20
         HPLC GRADE WATER
HYDRZ
         HYDRAZINE
HYDRND
         HYDRINDANE / OCTAHYDRO-1H-INDENE
CALLMW *HYDROCARBONS (ALL MOLECULAR WEIGHTS)
AC
         HYDROGEN CYANIDE / HYDROCYANIC ACID
H2S
         HYDROGEN SULFIDE
        *HYDROLYZABLE PHOSPHATE
HPO4
INDENE
         INDENE
ICDPYR
         INDENO {1,2,3-C,D} PYRENE
         INDOLE / 2,3-BENZOPYRROLE
INDOLE
FE
         IRON
ISODR
         ISODRIN
ISOPHR
         ISOPHORONE
ISOPBZ
         ISOPROPYLBENZENE / CUMENE
IMPA
         ISOPROPYLMETHYL PHOSPHONIC ACID / ISOPROPYLMETHYL
            PHOSPHONATE
ISOQUN
         ISOQUINOLINE
KEND
         KETO-ENDRIN
LACYBB
         LACTIC ACID, CYCLIC BUTANEBORONATE
LAURIC
         LAURIC ACID
PB
         LEAD
PBSTY
         LEAD STYPHNATE
Н
         LEVINSTEIN MUSTARD
L
         LEWISITE
LO
         LEWISITE OXIDE
LIN
         LINDANE / GAMA-BENZENEHEXACHLORIDE / GAMMA-
            HEXACHLOROCYCLOHEXANE
MG
         MAGNESIUM
MLTHN
         MALATHION
MALO
         MALONONITRILE
MN
         MANGANESE
HG
         MERCURY
HGEXT
        *MERCURY, EXTRACTABLE
        *MERCURY, TOTAL
HGTOT
MESTOX
         MESITYL OXIDE / 4-METHYL-3-PENTEN-2-ONE
MEOH
         METHANOL
MEXCLR
         METHOXYCHLOR
MEAOA
         METHYL ARSONIC ACID
MEHG
         METHYL MERCURY
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METHYL MERCURY CHLORIDE

MERGCL

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METLAP
        *METHYL NAPHTHALENES
MP
         *METHYL PHENOLS
MECYBU
         METHYLCYCLOBUTANE
MECYDC
         METHYLCYCLODECANE
MECC6
         METHYLCYCLOHEXANE
MECYPE
         METHYLCYCLOPENTANE
CH2BR2
         METHYLENE BROMIDE
CH2CL2
         METHYLENE CHLORIDE
CD2CT.2
         METHYLENE CHLORIDE-D2
MEK
         METHYLETHYL KETONE / 2-BUTANONE
MHYDRZ
         METHYLHYDRAZINE
MIBK
         METHYLISOBUTYL KETONE
MIPK
         METHYLISOPROPYL KETONE
MPA
         METHYLPHOSPHONIC ACID
MPK
         METHYLPROPYL KETONE / 2-PENTANONE
MNBK
         METHYL-N-BUTYL KETONE / 2-HEXANONE
ME2HPL
        *METHYL-2-HEPTANOLS
ME2HPO *METHYL-2-HEPTANONES
MTRZL
         METRAZOL / CARDIAZOLE
MQFH20
         MILLI-Q-FILTERED WATER
MIREX
         MIREX
MO
         MOLYBDENUM
NAP
         NAPHTHALENE
NAPD8
         NAPHTHALENE-D8
NI
         NICKEL
ио3
         NITRATE
NO2
         NITRITE
NIT
        *NITRITE, NITRATE-NON SPECIFIC
NITARO
        *NITRO AROMATICS
NB
         NITROBENZENE
NBD5
         NITROBENZENE-D5
NC
         NITROCELLULOSE
NC1
         NITROCELLULOSE, 12% N
NC2
         NITROCELLULOSE, 13.4% N
N2KJEL
        *NITROGEN BY KJELDAHL METHOD
NDIOX
         NITROGEN DIOXIDE
         NITROGEN MUSTARD
         NITROGLYCERINE
         NITROQUANIDINE
NDNPA
         NITROSO DI-N-PROPYLAMINE
C19
         NONADECANE
C19A
         NONADECANOIC ACID
C9
         NONANE
NNADME
         NONANEDIOIC ACID, DIMETHYL ESTER
NCLN
         NORTRICYCLANOL
NBUETH
         N-BUTYL ETHER / 1,1'-OXY BIS [BUTANE]
NBMBSA
         N-BUTYL-4-METHYLBENZENESULFONAMIDE
NECHXA
         N-ETHYLCYCLOHEXYLAMINE
NE2PEA
         N-ETHYL-2-PROPENAMIDE
NMANIL
         N-METHYLANILINE
NMCANE
         N-METHYLCARBAMIC ACID, 1-NAPHTHYL ESTER
NMNSOA
         N-METHYL-N-NITROSOANILINE
TETRYL
         N-METHYL-N, 2, 4, 6-TETRANITROANILINE / NITRAMINE
NDHXA
         N-NITRO DIHEXYLAMINE
NNDMEA
         N-NITROSO DIMETHYLAMINE
NNDPA
         N-NITROSO DIPHENYLAMINE
NNDNPA
         N-NITROSO DI-N-PROPYLAMINE
NNPIPA
         N-NITROSOPENTYLISOPENTYLAMINE
NN4HPL
         N-NITROSO-4-HYDROXYPROLINE
PENAMD
         N-PENTAMIDE
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NHEDCA
         N-(2-HYDROXYETHYL)-DECANAMIDE
         N-(4-CHLOROPHENYL)-3-PHENYL-2-PROPENAMIDE
NCPPPA
NNDMA
         N, N-DIMETHYLANILINE
NDMBSA
         N, 4-DIMETHYLBENZENESULFONAMIDE
         OCTADECAMETHYLCYCLONONASILOXANE
ODMNSX
C18
         OCTADECANE
ODECA
         OCTADECANOIC ACID / STEARIC ACID
C18ABE
         OCTADECANOIC ACID, BUTYL ESTER
         OCTADECANOIC ACID, ETHYL ESTER
C18AE
C18AME
         OCTADECANOIC ACID, METHYL ESTER
         OCTADECANOIC ACID, OCTADECYL ESTER
C18AOD
         OCTADECANOIC ACID, (2-PHENYL-1,3-DIOXOLAN-4-YL) METHYL ESTER
ODAPDM
OMCTSX
         OCTAMETHYLCYCLOTETRASILOXANE
C3
         OCTANE
OCADME
         OCTANEDIOIC ACID, DIMETHYL ESTER
         OCTANOIC ACID, METHYL ESTER
C8AME
OILGR
        *OIL & GREASE
OPO4
        *ORGANOPHOSPHATES
PO4ORT
         ORTHOPHOSPHATE
OXCN
         OXACYCLONONANE
CZONE
         OZONE
CEMP
         O-ETHYLMETHYL PHOSPHONATE
VM
         O-ETHYL-S-(2-DIETHYLAMINOETHYL) METHYL PHOSPHONOTHIOLATE
         O-ETHYL-S-(2-)IISOPROPYLAMINOETHYL) METHYLPHOSPHONOTHIOLATE
VX
PRTHN
         PARATHION
PARTIC *PARTICULAME MATTER
PCB016
         PCB 1016
        PCB 1221
PCB221
PCB232
        PCB 1232
        PCB 1242
PCB242
         PCB 1248
PCB248
PCB254
         PCB 1254
         PCB 1260
PCB260
         PCB 1262
PCB262
CL5BP
        *PENTACHLORO BIPHENYLS
         PENTACHLOROBENZENE
CL5B
CL5ET
         PENTACHLOROETHANE
PCP
         PENTACHLOROPHENOL
C25
         PENTACOSANE
C15
         PENTADECANE
C15A
         PENTADECANOIC ACID
PETN
         PENTAERYTHRITOL TETRANITRATE
PFP
         PENTAFLUOROPHENOL
PENTAN
         PENTANE
         PENTANOIC ACID / VALERIC ACID
C5A
         PENTANOIC ACID, 2-METHYLBUTYL ESTER
PA2MBE
PYLD12
        PERYLENE-D12
        *PH
PH
PHANTR
       PHENANTHRENE
PHAD10
       PHENANTHRENE-D10
PHENOL
         PHENOL
PHENLC
       *PHENOLICS (NON-SPECIFIC)
PHEND5
         PHENOL-D5
PHEND6
         PHENOL-D6
         PHENOXYACETIC ACID
PHXAA
         PHENYLACETIC ACID
PHENAA
         PHOSGENE OXIME / DICHLOROFORMOXIME
CX
         PHOSGENE / CARBONYL CHLORIDE
CG
PO4
         PHOSPHATE
         PHOSPHORIC ACID
H3PO4
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PHOSPHORIC ACID, DIETHYL-4-NITROPHENYL ESTER
PAD4NE
PAODPE
         PHOSPHORIC ACID, OCTYL DIPHENYL ESTER
PATPE
         PHOSPHORIC ACID, TRIPHENYL ESTER
         PHOSPHORUS
PHTHL
        *PHTHALATES
         PHTHALIC ACID / 1,2-BENZENEDICARBOXYLIC ACID
PHTHA
PIPER
         PIPERIDINE
         POLYDIMETHYL SILOXANE / DIMETHYLPOLY SILOXANE
PDMSLX
PEGE
        *POLYETHYLENEGLYCOL ETHERS
PAH
        *POLYNUCLEAR AROMATIC HYDROCARBONS
         POTASSIUM
        PROPANOIC ACID, METHYL ESTER
C3AME
C3A2MB
       PROPANOIC ACID, 2-METHYLBUTYL ESTER
PATBUE PROPANOIC ACID, T-BUTYL ESTER
PA2HDE PROPANOIC ACID, 2-HYDROXYDECYL ESTER
PRC6H5
       PROPYLBENZENE
POX
        *PURGEABLE ORGANIC HALOGENS
PYR
        PYRENE
PYRD10
       PYRENE-D10
REDDY
        RED DYE
RESACI *RESIN ACIDS
        SARIN / ISOPROPYLMETHYL PHOSPHONOFLUORIDATE
GB
Cl6SAT *SATURATED HYDROCABONS (C16)
SE
         SELENIUM
SIL
         SILICOKE
AG
        SILVER
SILVEX SILVEX
NA
        SODIUM
         SOMAN / PINACOLYLMETHYL PHOSPHONOFLUORIDATE
GD
        *SPECIFIC CONDUCTIVITY
COND
SQUAL
         SQUALENE
        *STEROIDS
STERO
ŠTIGMA
         STIGMASTENAL
SR
         STRONTIUM
STYPH
         STYPHNATE ION
         STYPHNIC ACID
STYPHA
STYR
         STYRENE
SO4
         SULFATE
SULFID
         SULFIDE
SO3
         SULFITE
         SULFUR
S2CL2
         SULFUR MONOCHLORIDE
SUADME
         SULFURIC ACID, DIMETHYL ESTER
SUPONA
         SUPONA / 2-CHLORO-1-(2,4-DICHLOROPHENYL) VINYL DIETHYL
            PHOSPHATE
DIAEP
         S-DIISOPROPYLAMINOETHYLMETHYL PHOSPHONOTHIOATE
         TABUN / ETHYL-N, N-DIMETHYL PHOSPHORAMIDOCYANIDATE
        *TEMPERATURE
TEMP
TRPD14
         TERPHENYL-d14
TDODTL
         TERT-DODECANETHIOL
        *TETRACHLORO BENZENES
TCB
        *TETRACHLORO BIPHENYLS
CL4BP
        *TETRACHLORO CYCLOPENTENES
TETPT
        *TETRACHLORO NAPHTHALENES
CL4NAP
TCLEE
         TETRACHLOROETHYLENE / TETRACHLOROETHENE
TCOS
         TETRACOSANE
TDMHSX
         TETRADECAMETHYL HEXASILOXANE
C14
         TETRADECANE
C14A
         TETRADECANOIC ACID / MYRISTIC ACID
         TETRADECANOIC ACID, METHYL ESTER
C14AME
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TGLYME
         TETRAGLYME
THF
         TETRAHYDROFURAN
THP 2ML
         TETRAHYDROPYRANYL-2-METHANOL
TMUR
         TETRAMETHYL UREA
TMPHAN
         TETRAMETHYLPHENANTHRENE
TETR
         TETRAZENE
TL
         THALLIUM
         THIOBUTYRIC ACID, S-DECYL ESTER
TBASDE
SCN
         THIOCYANATE
TDGCL
         THIODIGLYCOL
TDGCLA
         THIODIGLYCOLIC ACID
TPH
         THIOPHENE
SN
         TIN
MEC6H5
         TOLUENE
MEC6D8
        TOLUENE-D8
        *TOTAL DISSOLVED SOLIDS
TDS
TOTGAF
       *TOTAL GRAVIMETRIC, ACID FRACTION
HARD
       *TOTAL HARDNESS
       *TOTAL MERCURY
TOTHG2
TOC
        *TOTAL ORGANIC CARBON
TOX
        *TOTAL ORGANIC HALOGENS
TOTPCE
       *TOTAL PCBS
TPO4
        *TOTAL PHOSPHATES
        *TOTAL SULFUR
TS
TSS
        *TOTAL SUSPENDED SOLIDS
TOTDDT *TOTAL VALUE OF ALL DDT, DDE, DDD ISOMERS
       *TOTAL VOLATILE SOLIDS
TVS
TXPHEN TOXAPHENE
T1B2BC
        TRANS-1-BROMO-2-BUTYLCYCLOPROPANE
TCHDCS TRANS-1,2-CYCLOHEXANDIOL, CYCLIC SULFITE
T12DCE TRANS-1,2-DICHLOROETHYLENE / TRANS-1,2-DICHLOROETHENE
T13DCP TRANS-1,3-DICHLOROPROPENE
T2DEC
       TRANS-2-DECENE
C30AME TRIACONTANOIC ACID, METHYL ESTER
        TRIBUTYL PHOSPHATE
TBP
        TRIBUTYLAMINE
TBA
        *TRICHLORO BENZENES
TRIBZ
       *TRICHLORO BIPHENYLS
CL3BP
CL3NAP *TRICHLORO NAPHTHALENES
        *TRICHLORO PHENOLS
CL3P
CL3C3E *TRICHLORO PROPENES
TCST
        *TRICHLORO STYRENES
         TRICHLOROCYCLOPENTENE
TRIPT
         TRICHLOROETHYLENE / TRICHLOROETHENE
TRCLE
CCL3F
         TRICHLOROFLUOROMETHANE
C13
         TRIDECANE
TEPO4
         TRIETHYL PHOSPHATE
         TRIETHYLENE GLYCOL / 2,2'-{1,2-ETHANEDIYL BIS (OXY)}
TEGLYC
            BIS [ETHANOL]
         TRIETHYLENE GLYCOL, METHYL ETHER
TEGLME
         TRIFLUOROACETIC ACID, 1,5-PENTANEDIYL ESTER
TFAAPE
CCLF3
         TRIFLUOROCHLOROMETHANE
       *TRIHALO METHANES
TRXMET
       *TRIMETHYL BENZENES
TRIMBZ
ME3C10 *TRIMETHYL DECANES
ME3C6
        *TRIMETHYL HEXANES
ME3NAP *TRIMETHYL NAPHTHALENES
TMPO4
        TRIMETHYL PHOSPHATE
TMPO3
        TRIMETHYL PHOSPHITE
ME3C11 *TRIMETHYL UNDECANES
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TNBISO
        *TRINITROBENZENE ISOMER
TNTISO
        *TRINITROTOLUENE ISOMER
         TRIPHENYLENE
UNKXXX *UNKNOWN COMPOUND, XXX = 001 THRU 999
UDMH
         UNSYMMETRICAL DIMETHYL HYDRAZINE
V
         VANADIUM
DDVP
         VAPONA
VARHY
        *VARIOUS HYDROCARBONS WITH INCREASING M.W.
         VINYL FORMATE
WP
         WHITE PHOSPHORUS
CC3
         XXCC3
XYLEN
        *XYLENES
YELDY
         YELLOW DYE
ZN
         ZINC
7R
         ZIRCONIUM
01NHCL
         0.1 N HYDROCHLORIC ACID
IMPRB
         (1-METHYLPROPYL) BENZENE
lidmeb
         (1,1-DIMETHYLETHYL) BENZENE
         (1,3-DIMETHYLBUTYL) BENZENE
13DMBB
            ,5 TRANS)-7-CHLORO-6-HYDROXY-2',4-DIMETHOXY-6'-METHYL-
SPIRO
            SPIRO [BENZOFURAN-2-(3H)-1'-(2)-CYCLOHEXENE]-3,4'-DIONE
3S5E3L
         (3BETA)-STIGMAST-5-EN-3-OL
LIPID
        *% LIPIDS
         1H-BENZOTRIAZOLE / 1,2,3-BENZOTRIAZOLE
BZOTRZ
         1-ACETYL-3-METHYL-5-PYRAZOLONE
1A3MPZ
1A4HMB
         1-ACETYL-4-(1-HYDROXY-1-METHYLETHYL) BENZENE
1BY4HB
         1-BENZYL-4-HYDROXYBENZIMIDAZOLE
         1-BUTANOL
1C4L
1CDMPZ
         1-CARBAMOYL-3,5-DIMETHYL-2-PYRAZOLINE
1CLODC
         1-CHLOROUCTADECANE
1CL24H
         1-CHLORO-2,4-HEXADIENE
IDODCL
         1-DODECANOL
'EICOSL
         1-EICOSANOL
1EHB
         1-ETHYLHEXYLBENZENE
1EPB
         1-ETHYLPROPYLBENZENE
1E2MB
         1-ETHYL-2-METHYLBENZENE
1E24DB
         1-ETHYL-2,4-DIMETHYLBENZENE
1FNAP
         1-FLUORCNAPHTHALENE
1HPDOL
         1-HEPTADECANOL
1HXE
         1-HEXENE
1HX3OL
         1-HEXEN-3-OL
INDAN
         1-HYDROXY-2,3-METHYLENE INDAN
1MX1PE
         1-METHOXY-1-PROPENE
1MBAAN
         1-METHYLBENZ (A) ANTHRACENE
1MCPNE
         1-METHYLCYCLOPENTENE
1MDB
         1-METHYLDECYLBENZENE
1MECHX
         1-METHYLETHYLCYCLOHEXANE
IMECPR
         1-METHYLETHYLCYCLOPROPANE
1MEIND
         1-METHYLINDAN
IMNAP
         1-METHYLNAPHTHALENE
1MNB
         1-METHYLNONYLBENZENE
1MPYR
         1-METHYLPYRENE
1M2PEC
         1-METHYL-2-(2-PROPENYL) CYCLOPENTANE
1M7MEN
         1-METHYL-7-(1-METHYLETHYL) NAPHTHALENE
1MFLRE
         1-METHYL-9H-FLUORENE
1NHP
         1-NITROHEPTANE
         1-NITRO-2-OCTANONE
1N2ONE
10CTOL
         1-OCTANOL
1PNAP
         1-PHENYLNAPHTHALENE
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1C3L

1-PROPANOL

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1PECHX
         1-PROPENYLCYCLOHEXANE
1TBCHA
         1-T-BUTYLCYCLOHEXANECARBOXYLIC ACID
         1-(2-BUTOXYETHOXY) ETHANOL
BEETO
lidcle
         1,1-DICHLOROETHANE
11DCE
         1,1-DICHLOROETHYLENE / 1,1-DICHLOROETHENE
11ClPE
         1,1-DICHLORO-1-PROPENE
llDPH
         1,1-DIPHENYLHYDRAZINE
         1,1-DI-N-BUTYLETHYLENE / 1,1-DI-N-BUTYLETHENE
DNBEE
DPETYN
         1,1-(1,2-ETHYNEDIYL) BIS (BENZENE)
llitce
         1,1,1-TRICHLOROETHANE
         1,1,1,2-TETRACHLOROETHANE
2TCLEA
         1,1,2-TRICHLOROETHANE
112TCE
TCLTFE
         1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE
TFDCLE
         1,1,2-TRIFLUORO-1,2-DICHLOROETHANE
TCLEA
         1,1,2,2-TETRACHLOROETHANE
12TMCP
         1,1,2,2-TETRAMETHYLCYCLOPROPANE
         1,1,3-TRIMETHYLCYCLOHEXANE
113MCH
         1,1'-METHYLENE BIS {PIPERIDINE}
MEBPIP
         1,2-CYCLOHEXANE OXIDE
CHO
         1,2-DIBROMOMETHANE
12DBRE
12DCLB
         1,2-DICHLOROBENZENE
12DBD4
         1,2-DICHLOROBENZENE-D4
         1,2-DICHLOROETHANE
12DCLE
12DCD4
         1,2-DICHLOROETHANE-D4
12DCE
        *1,2-DICHLOROETHYLENES (CIS AND TRANS ISOMERS)
         1,2-DICHLOROPROPANE
12DCLP
12DMB
         1,2-DIMETHYLBENZENE / O-XYLENE
         1,2-DIMETHYLCYCLOPENTADIENE
DMCPDE
12DNAP
         1,2-DIMETHYLNAPHTHALENE
         1,2-DIPHENYLBENZENE
12DPB
         1,2-DIPHENYLHYDRAZINE
12DPH
         1,2-EPOXYCYCLOHEXENE / CYCLOHEXENE OXIDE
12EPCH
12EPEB
         1,2-EPOXYETHYLBENZENE / STYRENE OXIDE
123TCB
         1,2,3-TRICHLOROBENZENE
123CPR
         1,2,3-TRICHLOROPROPANE
123TMB
         1,2,3-TRIMETHYLBENZENE
         1,2,3-TRIMETHYLCYCLOHEXANE
123MCH
         1,2,3,4-TETRACHLOROBENZENE
TCB2
THNAP
         1,2,3,4-TETRAHYDRONAPHTHALENE / TETRALIN
1234MB
         1,2,3,4-TETRAMETHYLBENZENE
18018D
         1,2,3,4,4A,5,8,8A-OCTAHYDRO-1,4,5,8-DIMETHANOLNAPHTHALEN-
         1,2,3,4,5-PENTAHYDROXYCYCLOPENTANE
PHYCP
         1,2,3,5-TETRACHLOROBENZENE
TCB3
         1,2,4-TRICHLOROBENZENE
124TCB
124TMB
         1,2,4-TRIMETHYLBENZENE
124MCH
         1,2,4-TRIMETHYLCYCLOHEXANE
         1,2,4,5-TETRACHLOROBENZENE
TCB1
13CPDO
         1,3-CYCLOPENTADIONE
13DCLB
         1,3-DICHLOROBENZENE
13DBD4
         1,3-DICHLOROBENZENE-D4
         1,3-DICHLOROPROPANE
13DCP
13DCPE
         1,3-DICHLOROPROPENE
13DEB
         1,3-DIETHYLBENZENE
13DFB
         1,3-DIFLUOROBENZENE
13DMB
         1,3-DIMETHYLBENZENE / M-XYLENE
13DMCH
         1,3-DIMETHYLCYCLOHEXANE
13DNAP
         1,3-DIMETHYLNAPHTHALENE
13DNB
         1,3-DINITROBENZENE
         1,3-DIPHENYLPROPANE / 1,1'-(1,3-PROPANEDIYL) BIS [BENZENE]
13DPPR
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135TMB
         1,3,5-TRIMETHYLBENZENE
         1,3,5-TRIMETHYLCYCLOHEXANE
135MCH
135TNB
         1,3,5-TRINITROBENZENE
14DACB
         1,4-DIACETYLBENZENE
14DCLB
         1,4-DICHLOROBENZENE
14DBD4
         1,4-DICHLOROBENZENE-D4
         1,4-DICHLOROBUTANE
14DCBU
14DFB
         1,4-DIFLUOROBENZENE
         1,4-DIHYDRO-1,4-METHANONAPHTHALENE
14DMNP
         1,4-DIMETHOXYANTHRACENE
14DMXA
         1,4-DIMETHYLCYCLOHEXANE
14DMCH
        1,4-DIMETHYL-2-ETHYLBENZENE
14D2EB
14DNB
        1,4-DINITROBENZENE
14DIOX
        1,4-DIOXANE
        1,4-HEXADIENE
14HXDE
        1,4-OXATHIANE
TAXO
        1,5-BIS (1,1-DIMETHYLETHYL)-3,3-DIMETHYLBICYCLO [3.1.0]
BIDBI
           HEXANE-2-ONE
15DNAP
        1,5-DIMETHYLNAPHTHALENE
        1,6-DIMETHYLINDAN
16DMIN
16DNAP
         1,6-DIMETHYLNAPHTHALENE
167TMN
         1,6,7-TRIMETHYLNAPHTHALENE
18DNAP
         1,8-DIMETHYLNAPHTHALENE
10CUDM
        10-CYCLOPENTYLUNDECANOIC ACID, METHYL ESTER
10MUDM 10-METHYLUNDECANOIC ACID, METHYL ESTER
100EME 10-OCTADECENOIC ACID, METHYL ESTER
10MEOH 10% METHANOL
12MTDM 12-METHYLTETRADECANOIC ACID, METHYL ESTER
         13-TETRADECYNOIC ACID, METHYL ESTER
13TDAM
14MPME 14-METHYLPENTADECANIC ACID, METHYL ESTER
15MHME 15-METHYLHEXADECANOIC ACID, METHYL ESTER
TCSAME 15-TETRACOSENOIC ACID, METHYL ESTER
16-METHYLHEPTADECANOIC ACID, METHYL ESTER
17PTCE 17-PENTATRIACONTENE
         1.ALPHA.(E), 4.ALPHA.-1-(1,4-DIHYDROXY-2,6,6-TRIMETHYL-
DTCHBO
            2-CYCLOHEXEN-1-YL)-2-BUTEN-1-ONE
1NKCL
        1.0 N POTASSIUM CHLORIDE
        2.0 N POTASSIUM CHLORIDE
2NKCL
2A46DA
         2-AMINO-4,6-DINITROANILINE
2A46DT
        2-AMINO-4,6-DINITROTOLUENE
         2-BROMOHEXANOIC ACID
2BRHXA
2B1CP
         2-BROMO-1-CHLOROPROPANE
2C4E
         2-BUTENE
2BUXEL
         2-BUTOXYETHANOL
         2-BUTOXYETHANOL PHOSPHATE
BEP
2BUTHF
         2-BUTYLTETRAHYDROFURAN
         2-BUTYL-N-METHYLNORLEUCINE, METHYL ESTER
2BNMNM
2B100L
         2-BUTYL-1-OCTANOL
CBA
         2-CHLOROBENZALDEHYDE
CBOA
         2-CHLOROBENZOIC ACID
2CBMN
         2-CHLOROBENZYLIDINEMALONONITRILE
2CLBP
         2-CHLOROBIPHENYL
2CLEVE
         2-CHLOROETHYLVINYL ETHER / (2-CHLOROETHOXY) ETHENE
2CNAP
         2-CHLORONAPHTHALENE
2CLP
         2-CHLOROPHENOL
2CLPD4
         2-CHLOROPHENOL-D4
2CLT
         2-CHLOROTOLUENE
         2-CHLOROVINYL ARSONIC ACID
CLVRA
2C6MPZ 2-CHLORO-6-METHOXY-10H-PHENOTHIAZINE
2CHE1L 2-CYCLOHEXEN-1-OL
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2CHE10
         2-CYCLOHEXEN-1-ONE
2CHAEE
         2-CYCLOPENTENE-1-HENDECANOIC ACID, ETHYL ESTER
2ECYBL
         2-ETHYLCYCLOBUTANOL
2EC6A
         2-ETHYLHEXANOIC ACID
2EP
         2-ETHYLPHENOL
MPDDD
         2-(META-CHLOROPHENYL)-2-(PARA-CHLOROPHENYL)-
            1,1-DICHLOROETHANE
OPDDD
         2-(ORTHO-CHLOROPHENYL)-2-(PARA-CHLOROPHENYL)-
            1,1-DICHLOROETHANE
OPDDE
         2-(ORTHO-CHLOROPHENYL)-2-(PARA-CHLOROPHENYL)-
            1,1-DICHLOROETHENE
OPDDT
         2-(ORTHO-CHLOROPHENYL)-2-(PARA-CHLOROPHENYL)-
            1,1,1-TRICHLOROETHANE
2B4MFU
         2-(T-BUTYL)-4-METHYLFURAN
2MENAP
         2-(1-METHYLETHYL) NAPHTHALENE
2CECHO
         2-(2-CYANOETHYL) CYCLOHEXANONE
2MXEXL
         2-(2-METHOXYETHOXY) ETHANOL / DIETHYLENEGYLCOL
            MONOMETHYLETHER
2BEETO
         2-(2-N-BUTOXYETHOXY) ETHANOL
2PXEXL
         2-(2-PHENOXYETHOXY) ETHANOL
210DMU
         2,10-DIMETHYLUNDECANE
BCPHCE
         2,2-BIS (CHLOROPHENYL) CHLOROETHYLENE
2BEMDE
         2,2-BIS (ETHYLMERCAPTO) DIETHYL ETHER
2BMMPR
         2,2-BIS (METHYLMERCAPTO) PROPANE
PPDDD
         2,2-BIS (PARA-CHLOROPHENYL)-1,1-DICHLOROETHANE
         2,2-BIS (PARA-CHLOROPHENYL)-1,1-DICHLOROETHENE
PPDDE
         2,2-BIS (PARA-CHLOROPHENYL)-1,1,1-TRICHLOROETHANE
PPDDT
         2,2-BIS (PARA-CHLOROPHENYL)-2-PHENYL-1,1-DICHLOROETHENE
PPTDE
         2,2-DIMETHYLBUTANE
22DMC4
2DMPEN
         2,2-DIMETHYLPENTANE
         2,2-DIMETHYL-1-ACETYLCYCLOHEXANE
DM1ACH
DMPTHF
         2,2-DIMETHYL-5-(1-METHYLPROPYL) TETRAHYDROFURAN
23TMP
         2,2,3,3-TETRAMETHYLPENTAME
24T13P
         2,2,4-TRIMETHYL-1,3-PENTANEDIOL
         2,2,4,4,7,7-HEXAMETHYLOCTAHYDRO-1H-INDENE
247H0I
226TMO
         2,2,6-TRIMETHYLOCTANE
TMODEO
         2,2,7,7-TETRAMETHYL-4,5-OCTADIEN-3-ONE
         2,2',3,3',4,4',5,5'-OCTACHLOROBIPHENYL
250CCB
         2,2',3,4,4',5,6-HEPTACHLOROBIPHENYL
26HPCB
         2,2',3,4,5,5'-HEXACHLOROBIPHENYL
25HXCB
         2,2'
             ,3,4,5,5',6-HEPTACHLOROBIPHENYL
25HPCB
             ,4,5,5'-PENTACHLOROBIPHENYL
         2,2'
245PCB
             ,5-TRICHLOROBIPHENYL
225TCB
         2,2',5,5'-TETRACHLOROBIPHENYL
2255Cb
23DCLP
         2,3-DICHLOROPHENOL
         2,3-DICHLORO-1-PROPENE
23ClPE
         2,3-DIMETHYLBUTANE
23DMC4
23DNAP
         2,3-DIMETHYLNAPHTHALENE
23DMC5
         2,3-DIMETHYLPENTANE
23DMP
         2,3-DIMETHYLPHENOL
23D2HL
         2,3-DIMETHYL-2-HEXANOL
         2,3,4-TRIMETHYL-3-PENTANOL
TM3PL
TRMTDE
         2,3,4-TRIMETHYL-4-TETRADECENE
         2,3,4,5-TETRACHLOROBIPHENYL
2345CB
2346CP
         2,3,4,6-TETRACHLOROPHENOL
235TMD
         2,3,5-TRIMETHYLDECANE
2356CP
         2,3,5,6-TETRACHLOROPHENOL
236TMN
         2,3,6-TRIMETHYLNAPHTHALENE
         2,3,7-TRIMETHYLOCTANE
237TMO
         2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN / DIOXIN
TCDD
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24DCLP
         2,4-DICHLOROPHENOL
         2,4-DICHLOROPHENOXYACETIC ACID
24D
         2,4-DIHYDROXYBENZOIC ACID, TRIS-TRIMETHYSILYL
DBATTS
         2,4-DIMETHYLDECANE
24DMD
24DMHX
         2,4-DIMETHYLHEXANE
24DMC5
         2,4-DIMETHYLPENTANE
24DMPN
         2,4-DIMETHYLPHENOL
         2,4-DIMETHYL-2-PENTANOL
24M2PL
24DNP
         2,4-DINITROPHENOL
24NPD3
         2,4-DINITROPHENOL-D3
         2,4-DINITROTOLUENE
24DNT
245TCP
         2,4,5-TRICHLOROPHENOL
         2,4,5-TRICHLOROPHENOXYACETIC ACID
245T
246MPY
         2,4,6-TRIMETHYLPYRIDINE
246TBP
         2,4,6-TRIBROMOPHENOL
         2,4,6-TRICHLOROANILINE
246TCA
246TCP
         2,4,6-TRICHLOROPHENOL
         2,4,6-TRIMETHYLOCTANE
246TMO
ATNBA
         2,4,6-TRINITROBENZALDEHYDE
         2,4,6-TRINITROPHENOL / PICRIC ACID
246TNP
         2,4,6-TRINITRORESORCINOL / STYPHNIC ACID
246TNR
246TNT
         2,4,6-TRINITROTOLUENE
         2,4,7-TRIMETHYLOCTANE
247TMO
         2,4'-DICHLOROBIPHENYL
24DCB
         2,5-CYCLOHEXADIEN-1,4-DIONE
25C14D
         2,5-DICHLOROPHENOL
25DCLP
25DMPA
         2,5-DIMETHYLPHENANTHRENE
         2,5-DIMETHYLPHENOL
25DMP
25DTHF
         2,5-DIMETHYLTETRAHYDROFURAN
         2,5,6-TRIMETHYLDECANE
256TMD
         2,6-DICHLOROPHENOL
26DCLP
         2,6-DIMETHYLOCTANE
26DMO
26DMP
         2,6-DIMETHYLPHENOL
26DMST
         2,6-DIMETHYLSTYRENE
26DMUD
         2,6-DIMETHYLUNDECANE
26DNA
         2,6-DINITROANILINE
         2,6-DINITROTOLUENE
26DNT
DTB4C
         2,6-DI-TERT-BUTYL-4-CRESOL
         2,6-DI-T-BUTYL-4-METHYLPHENOL
26DBMP
2TMHPD
         2,6,10,14-TETRAMETHYLHEPTADECANE
2TMPD
         2,6,10,14-TETRAMETHYLPENTADECANE
HMTCHE
         2,6,10,15,19,23-HEXAMETHYL-2,6,10,14,18,22-TETRACOSAHEXAENE
2611MD
         2,6,11-TRIMETHYLDODECANE
         2,7-DIMETHYLNAPHTHALENE
27DNAP
27DM0
         2,7-DIMETHYLOCTANE
29 DMUD
         2,9-DIMETHYLUNDECANE
3BPETH
         3-BUTENYLPENTYL ETHER
3CLP
         3-CHLOROPHENOL
3CLT
         3-CHLOROTOLUENE
3C1C3E
         3-CHLORO-1-PROPENE / ALLYL CHLORIDE
3CHXD
         3-CYCLOHEXYLDECANE
3EP
         3-ETHYLPHENOL
3EHXDE
         3-ETHYL-1,4-HEXADIENE
3E22MP
         3-ETHYL-2,2-DIMETHYLPENTANE / 3-(T-BUTYL)-PENTANE
3E25DH
         3-ETHYL-2,5-DIMETHYL-3-HEXENE
         3-ETHYL-5-(2-ETHYLBUTYL) OCTADECANE
3EEBOD
3HXE20
         3-HEXEN-2-ONE
         3-HYDROXY-2,7-DIMETHYL-4-{3H}-PTERIDINONE
3HDMPT
         3-METHOXYIMIDAZOLE
3MXIMZ
3MXT
         3-METHOXYTOLUENE
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3-METHOXY-2-CYCLOPENTEN-1-ONE
BM2C10
3MBP
         3-METHYLBIPHENYL
         3-METHYLBUTANOIC ACID, 3,7-DIMETHYL-2,4,6-OCTATRIENYL ESTER
MBADOE
3MCHRY
         3-METHYLCHRYSENE
3MC6
         3-METHYLHEXANE
3MEPEN
         3-METHYLPENTANE
3MPANR
         3-METHYLPHENANTHRENE
3MP
         3-METHYLPHENOL / 3-CRESOL
3MUND
         3-METHYLUNDECANE
3M1PL
         3-METHYL-1-PENTANOL
3M2CHO
         3-METHYL-2-CYCLOHEXEN-1-ONE
3M2HXL
         3-METHYL-2-HEXANOL
3M2C5E
         3-METHYL-2-PENTENE
3M5PNN 3-METHYL-5-PROPYLNONANE
3-NITROANILINE
3NT
         3-NITROTOLUENE
30CTOL
        3-OCTANOL
3OPPAE 3-0X0-3-PHENYLPROPANOIC ACID, ETHYL ESTER
EDBDAS
        3-PHENYLPROPANOL
3PC3AC
         3-PHENYLPROPANOYL CHLORIDE / HYDROCINNAMYL CHLORIDE
32T
         3-PROPYLTOLUENE
32
         3-QUINUCLIDINYL BENZILATE
         3-(CHLOROMETRYL) CYCLOHEXENE
3CMCH
         3-(HYDROXYMETHYL)-4,4-DIMETHYLPENTANAL
3HDMPL
3TBUP
         3-(T-BUTYL) PHENOL
         3-(2,2-DIMETHYLPROPOXY) CYCLOHEXENE
DMPCHE
33DMHX
         3,3-DIMETHYLHEXANE
         3,3-DIMETHYLPENTANE
33DMPN
TMHPDO 3,3,6-TRIMETHYL-1,5-HEPTADIEN-4-ONE
33DCBD
        3,3'-DICHLOROBENZIDINE
34CBD6
         3,3',4,4'-TETRACHLOROBIPHENYL-D6
34DCLP
         3,4-DICHLOROPHENOL
         3,4-DIHYDRO-2H-1-BENZOPYRAN
DHBZPY
         3,4-DIMETHYLPHENOL
34DMP
34D1DE
         3,4-DIMETHYL-1-DECENE
         3,4-EPOXY-3-ETHYL-2-BUTANONE
3EE2BO
         3,4,4-TRIMETHYL-2-PENTENE
344TPE
         3,4,5-TRIMETHYL-1-HEXENE
345T1H
36TMPA
         3,4,5,6-TETRAMETHYLPHENANTHRENE
35DMP
         3,5-DIMETHYLPHENOL
3DCHEO
         3,5-DIMETHYL-2-CYCLOHEXEN-1-ONE
35M3HL
         3,5-DIMETHYL-3-HEXANOL
35DNA
         3,5-DINITROANILINE
35DNP
         3,5-DINITROPHENOL
35DNT
         3,5-DINITROTOLUENE
TMTCON
         3,5,24-TRIMETHYLTETRACONTANE
TMHXL
         3,5,5-TRIMETHYL-1-HEXANOL
3TCHEO
         3,5,5-TRIMETHYL-2-CYCLOHEXEN-1-ONE
         3,6-DICHLOROFLUOREN-9-ONE
36DF90
         3,7-DIMETHYLNONANE
37DMNN
         3,8-DIMETHYLUNDECANE
38DMUD
4AMORP
         4-ACETYLMORPHOLINE
4A35DT
         4-AMINO-3,5-DINITROTOLUENE
4BFB
         4-BROMOFLUOROBENZENE
4BRPPE
         4-BROMOPHENYLPHENYL ETHER
4B3P20
         4-butoxy-3-penten-2-one
4CANIL
         4-CHLOROANILINE
4CCHXL
         4-CHLOROCYCLOHEXANOL
CPMS
         4-CHLOROPHENYLMETHYL SULFIDE
CPMSO2
         4-CHLOROPHENYLMETHYL SULFONE
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CPMSO
         4-CHLOROPHENYLMETHYL SULFOXIDE
4CLPPE
         4-CHLOROPHENYLPHENYL ETHER
4CLT
         4-CHLOROTOLUENE
4CL2C
         4-CHLORO-2-CRESOL / 2-METHYL-4-CHLOROPHENOL
4CL3C
         4-CHLORO-3-CRESOL / 3-METHYL-4-CHLOROPHENOL
4C3MBE
         4-CHLORO-3-METHYL-1-BUTENE
PCYMEN 4-CYMENE / 4-(1-METHYLETHYL) TOLUENE
4E2OCE 4-ETHYL-2-OCTENE
4ETMHP 4-ETHYL-2,2,6,6-TETRAMETHYLHEPTANE
4FANIL
         4-FLUOROANILINE
4FT
         4-FLUOROTOLUENE
4HAZOB
         4-HYDROXYAZOBENZENE
4HYBA
         4-HYDROXYBENZALDEHYDE
4H3MBA 4-HYDROXY-3-METHOXYBENZALDEHYDE / VANILLIN
4H35BA 4-HYDROXY-3,5-DIMETHOXYBENZALDEHYDE
4IOMQU
       4-IODOMETHYLQUINULCIDINE
       4-METHOXYCYCLOHEXANOL
4MXCHL
4MXP
        4-METHOXYPHENOL
4MBSA
         4-METHYLBENZENE SULFONAMIDE
4MBP
         4-METHYLBIPHENYL
4MDBFU
         4-METHYLDIBENZOFURAN
4MC7
         4-METHYLHEPTANE
4MPANR
         4-METHYLPHENANTHRENE
         4-METHYLPHENOL / 4-CRESOL .
4MP
4MPYR
         4-METHYLPYRENE
         4-METHYL-1-(1-METHYLETHYL)-BICYCLO {3.1.0} HEX-2-ENE
4MMBHE
4M2PPL
         4-METHYL-2-PROPYL-1-PENTANOL
4MFLRE
         4-METHYL-9H-FLUORENE
4NANIL
         4-NITROANILINE
4NP
        4-NITROPHENOL
TSAHPE
         4-TOLUENESULFONIC ACID, HEPTYL ESTER
4TBU2C
         4-T-BUTYL-2-CRESOL / 2-METHYL-4-(T-BUTYL)-PHENOL
4TOP
         4-T-OCTYLPHENOL
41MEHP
         4-(1-METHYLETHYL) HEPTANE
4MENPA
        4-(1-METHYLETHYL)-N-PHENYLANILINE
44DCBZ
        4,4'-DICHLOROBENZOPHENONE
        4,4'-DIFLUOROBENZOPHENONE
44DFBZ
44DMUD
        4,4-DIMETHYLUNDECANE
4DM2PL
        4,4-DIMETHYL-2-PENTANOL
44DMPE
        4,4-DIMETHYL-2-PENTENE
DBTSPY
        4,5-DIMETHYL-2,6-BIS (TRIMETHYLSILOXY) PYRIMIDINE
        4,5,6,7,8,8A-HEXAHYDRO-8A-METHYL-2-{1H}-AZULENONE
HXHMAZ
46DN2C
         4,6-DINITRO-2-CRESOL / 2-METHYL-4,6-DINITROPHENOL
468TIN
         4,6,8-TRIMETHYL-1-NONENE
47DMUD
         4,7-DIMETHYLUNDECANE
48DMHD
         4,8-DIMETHYLHENDECANE
         5-CHLORO-2-CRESOL / 2-METHYL-5-CHLOROPHENOL
5CL2C
5E2MHP
         5-ETHYL-2-METHYLHEPTANE
5ESMD
        5-ETHYL-5-METHYLDECANE
MBZCAC
         5-METHYLBENZO {C} ACRIDINE
5M2HXO
         5-METHYL-2-HEXANONE
5M5HAL
         5-METHYL-5-HYDROXYHEXANOIC ACID LACTONE
5N2OL
         5-NORBOREN-2-OL
5PTRID
         5-PROPYLTRIDECANE
         5,7-DICHLORO-2-METHYLBENZOFURAN
DCMBF
         50% HEXANE - 50% ACETONE
50H50A
         50% METHYLENE CHLORIDE - 50% ACETONE
50M50A
50WMAN
         50% WATER - 25% METHANOL - 25% ACETONITRILE
NAOHME
         50% 1M NAOH - 50% METHANOL
         6-CHLORO-3-CRESOL / 3-METHYL-6-CHLOROPHENOL
6CL3C
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6E6MFV 6-ETHYL-6-METHYLFULVENE

6MEPUR 6-METHYLPURINE 6MTRID 6-METHYLTRIDECANE 6M3HPL 6-METHYL-3-HEPTANOL

6TBU2C 6-T-BUTYL-2-CRESOL / 2-METHYL-6-(T-BUTYL) PHENOL

HYNB 7-HYDROXYNORBORNADIENE

7MTRID 7-METHYLTRIDECANE

C12AMM S-METHYLDECANOIC ACID, METHYL ESTER

8MNNDL 8-METHYL-1,8-NONANEDIOL

CARBAZ 9H-CARBAZOLE

ANTRCN 9-ANTHRACENECARBONITRILE

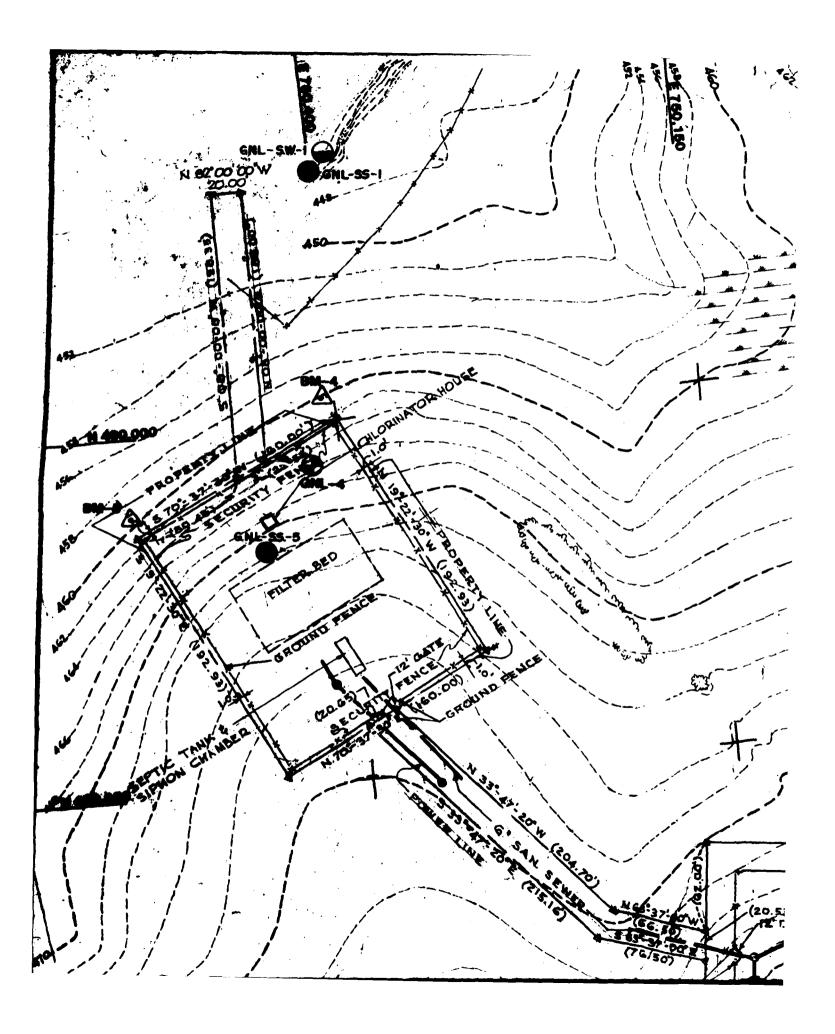
9FLENO 9-FLUORENONE

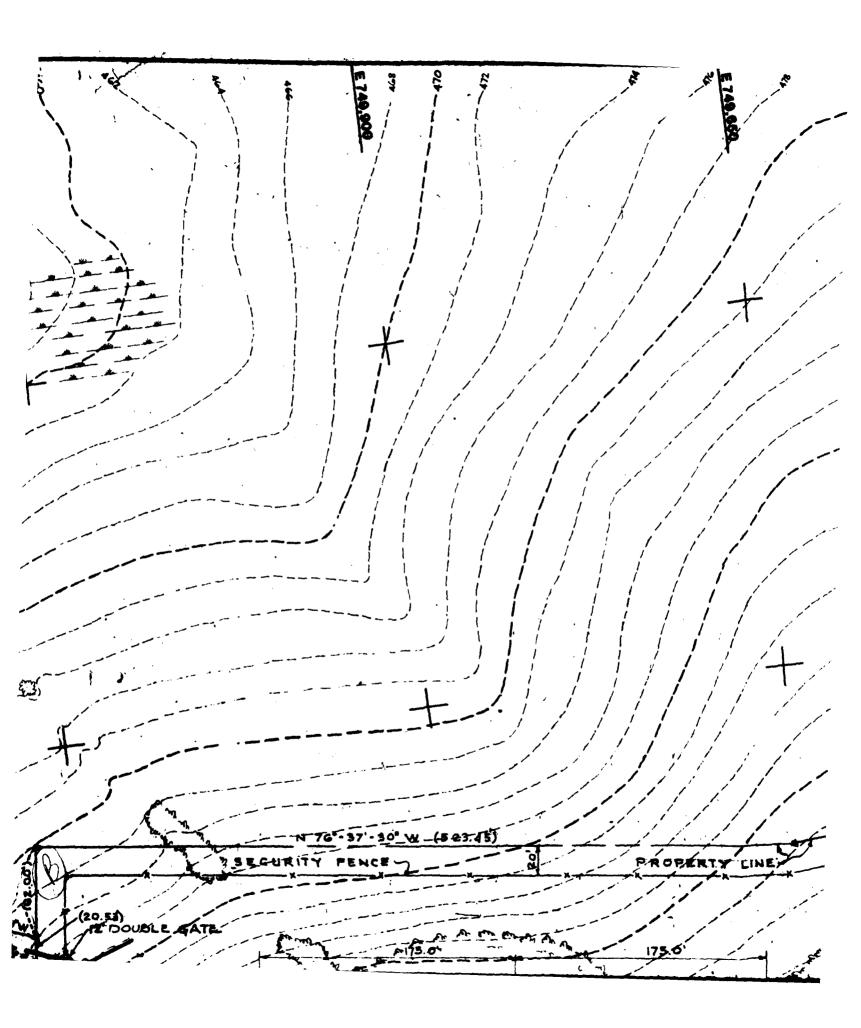
9MXANT 9-METHOXYANTHRACENE

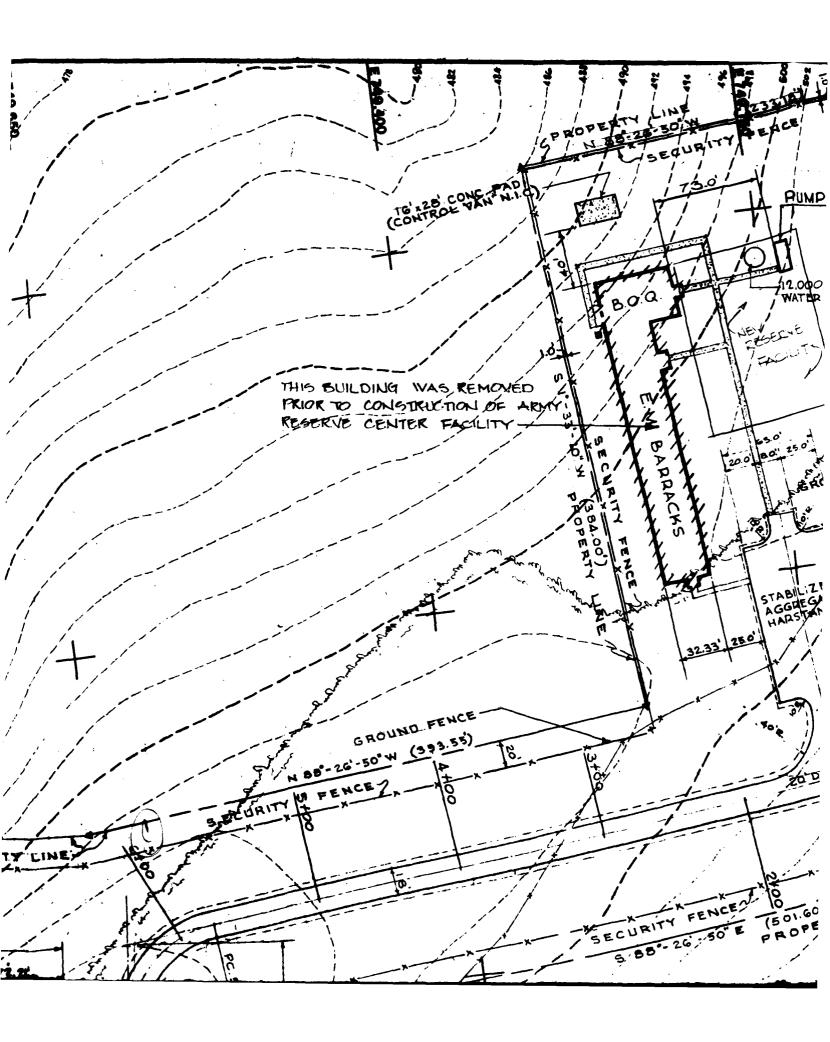
9MBAAN 9-METHYLBENZ (A) ANTHRACENE

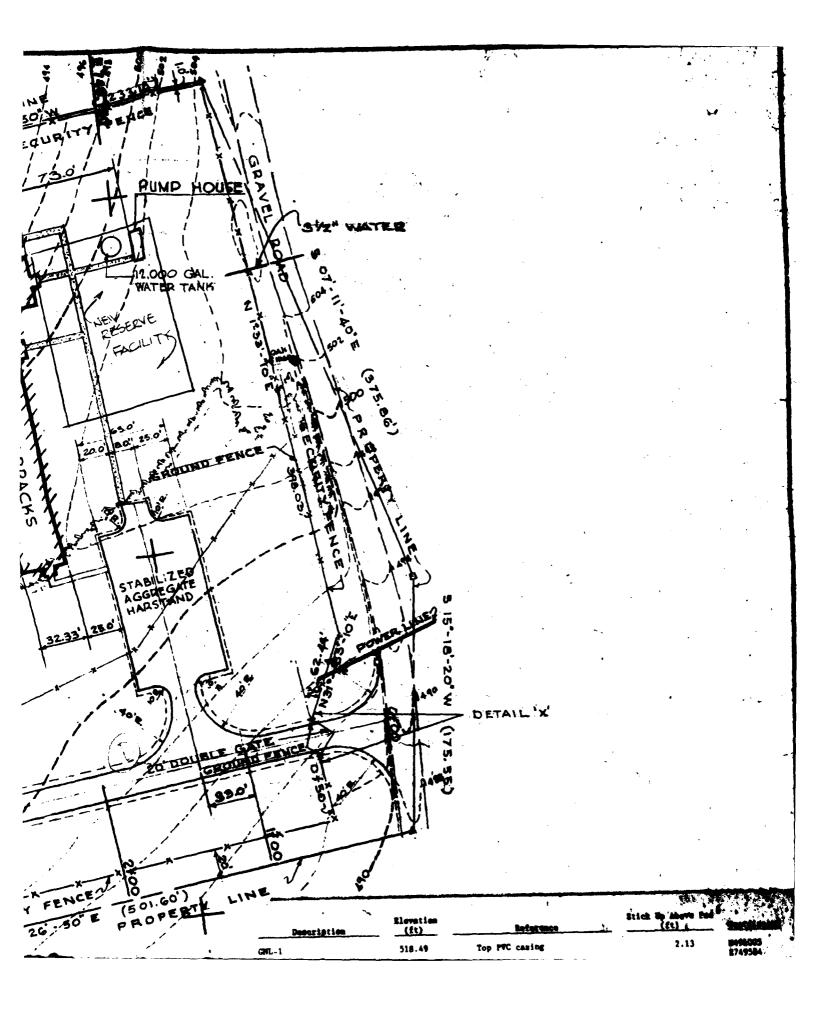
DHDMAC 9,10-DIHYDRO-9,9-DIMETHYLACRIDINE

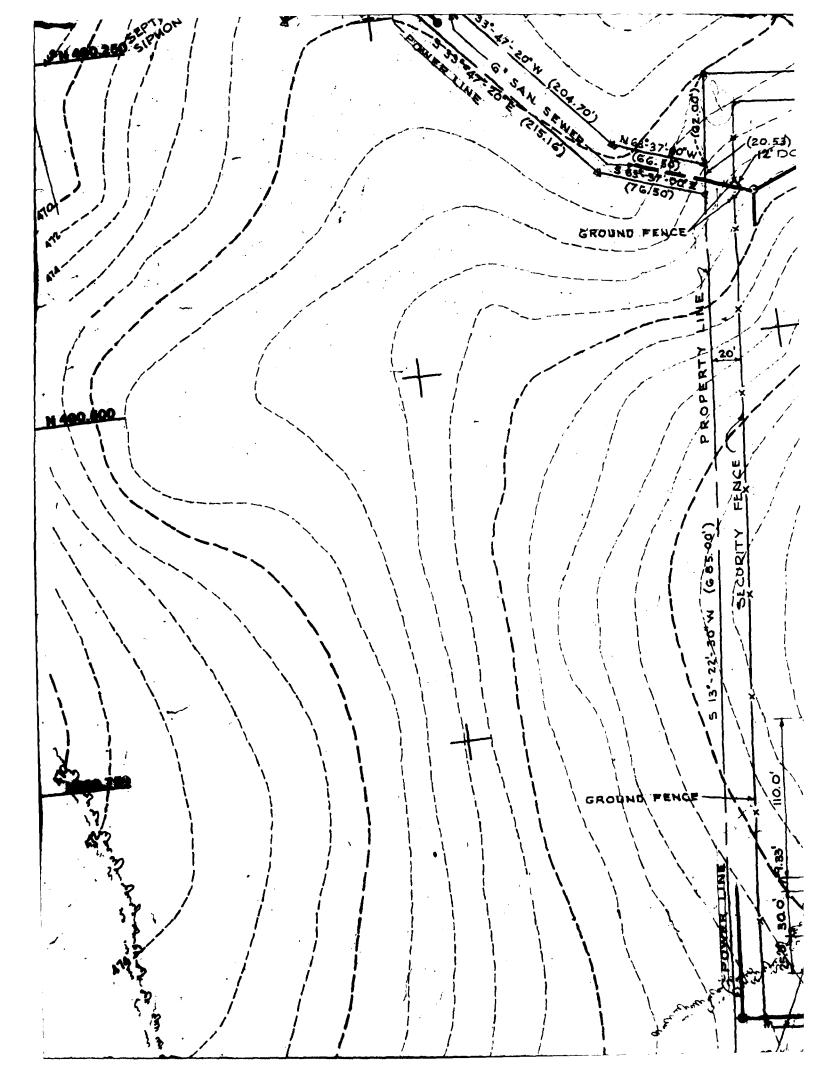
^{*}DENOTES GENERIC TEST NAME

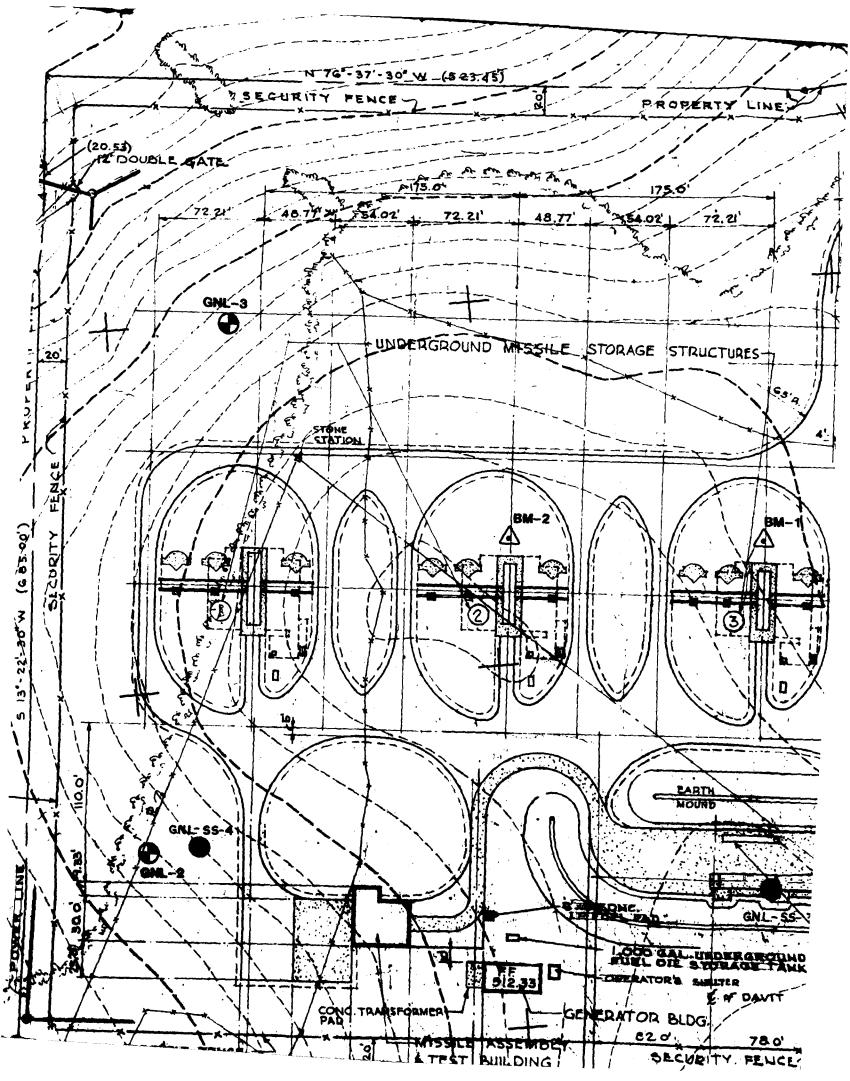


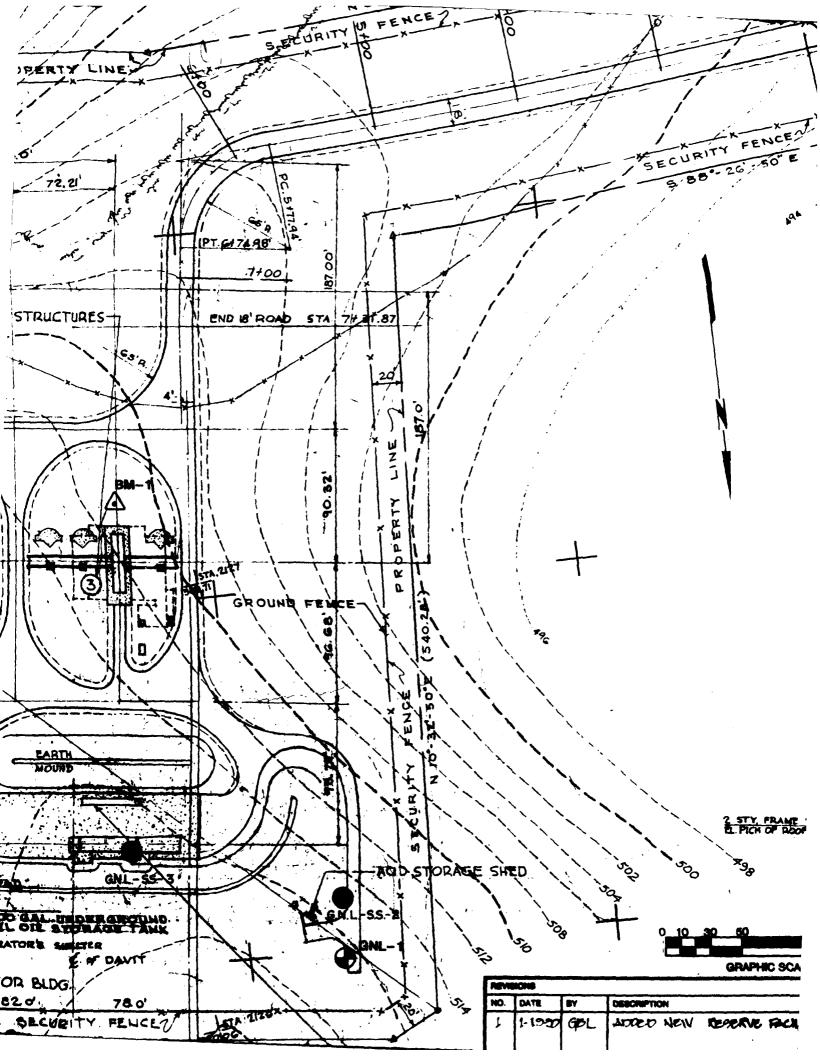


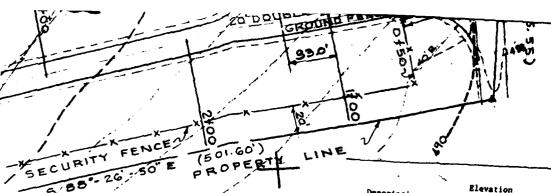












| Description | Elevation (ft) | Reference | Stick Up Above Par |
|-------------|-------------------|-----------------|--------------------|
| GNL-1 | 518.49 | Top PVC casing | (ft) |
| GNL~2 | 505.91 | Top PVC casting | 2.13 |
| GNL~3 | 506.52 | Top PVC casing | 2.23 |
| GNL-4 | 467.22 | Top PVC casing | .45 |
| GNL SS-1 | 445.00 | Ground surface | |
| GNL \$S-2 | 515.90 | Ground surface | |
| GNL SS-3 | 514.89 | Ground surface | |
| GNL SS-4 | 505.78 | Ground surface | |
| GNL SS-5 | 469.70 | Ground surface | |
| GNL SV-1 | 445.00 | Ground surface | |
| | | | |

| Description | Elevation (ft) | Reference | Stick Up Above Pad (ft) | Coe |
|---|-------------------|--------------------------------------|-------------------------|------------|
| BM 1 | | Paint mark on concrete | - - | #49 27 |
| B# 2 | | Paint mark on concrete | | 164° |
| Finished Floor of Transformer Generator Bldg. | 512.33 | Generator bldg. finished floor | × | |
| Finished Floor of Chlorination House | 469.48 | Pinished floor of Chlorination House | h | - <i>.</i> |

GENERAL NOTES:

- Drawing based on Army Corps of Engineers, Vashington District, Vashington, D.C., Haster Plan, Information Haps, Detail Boundary Map, Drawing Number 18-02-67.

 Coordinates established by RA Survey May 1989. Based on State Planar Coordinate System. Silvas established from off site BN A572 and BN 17232 using Vashington Suburban Senitary Commissionates.
- Datum.
 All elevations refer to Hean Sea Level Datum.
 Finished floor elevation of generator building was used to establish elevations of those wel launch site. Finished floor elevation of chlorisation house was used to establish elevation and SS-5.
 GNL designation refers to Gaithersburg MIKE Launch.

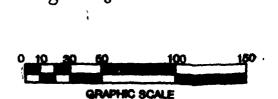
LEGEND



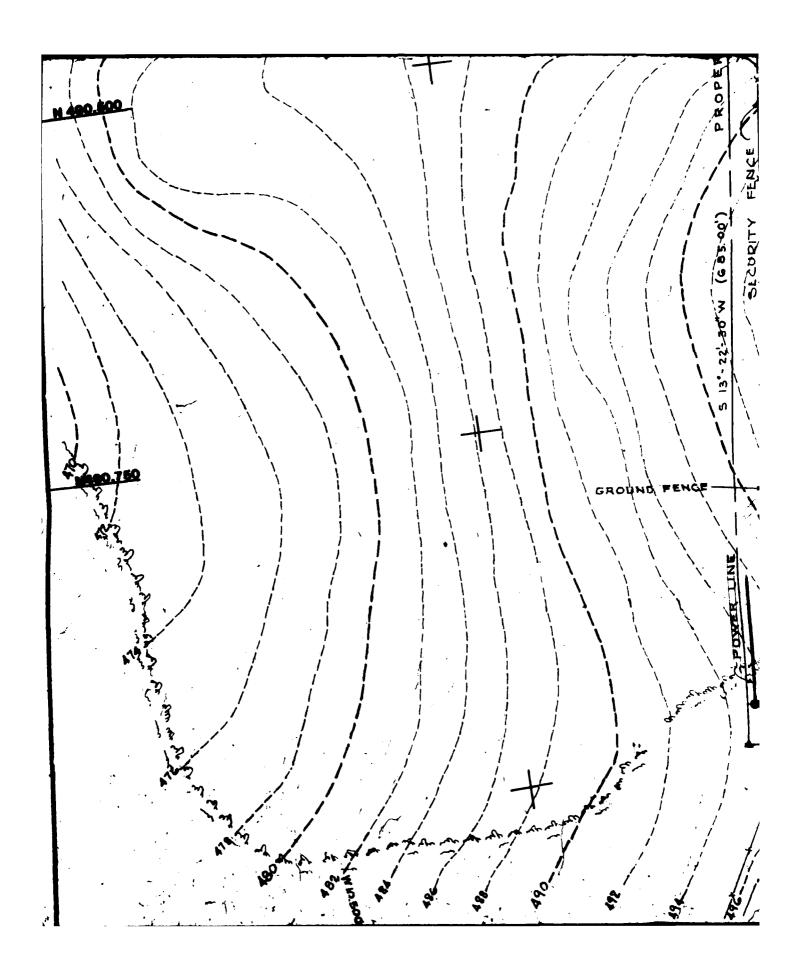


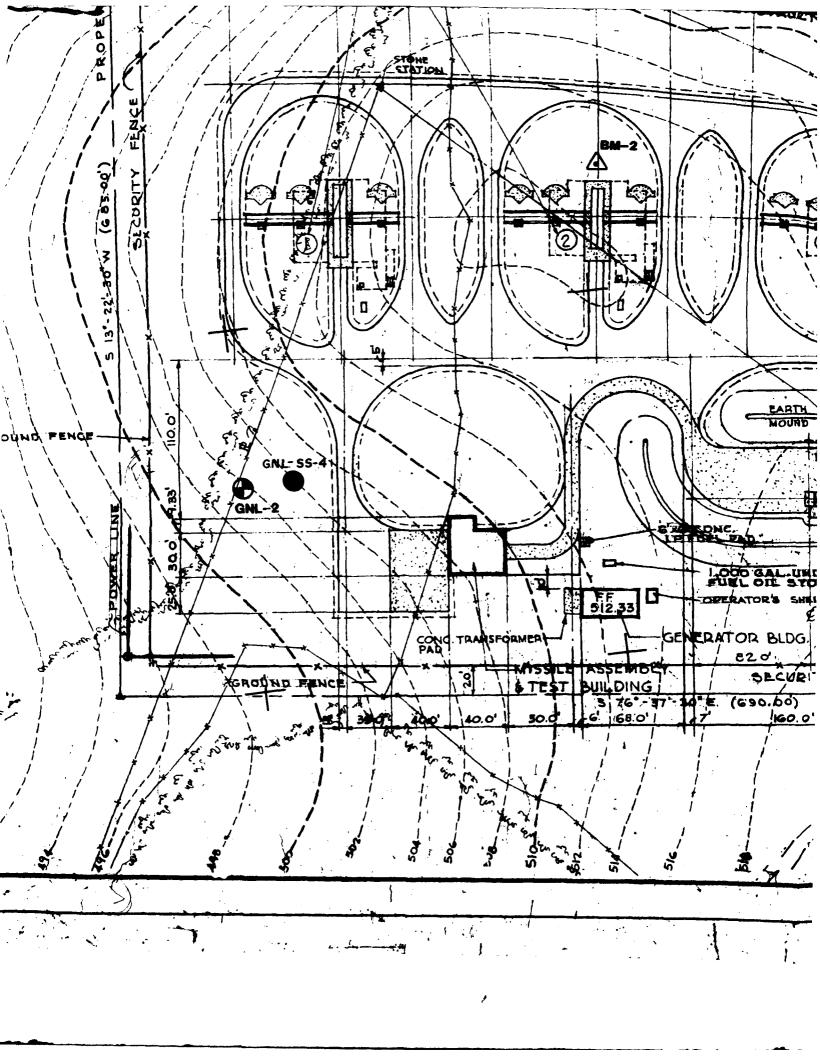


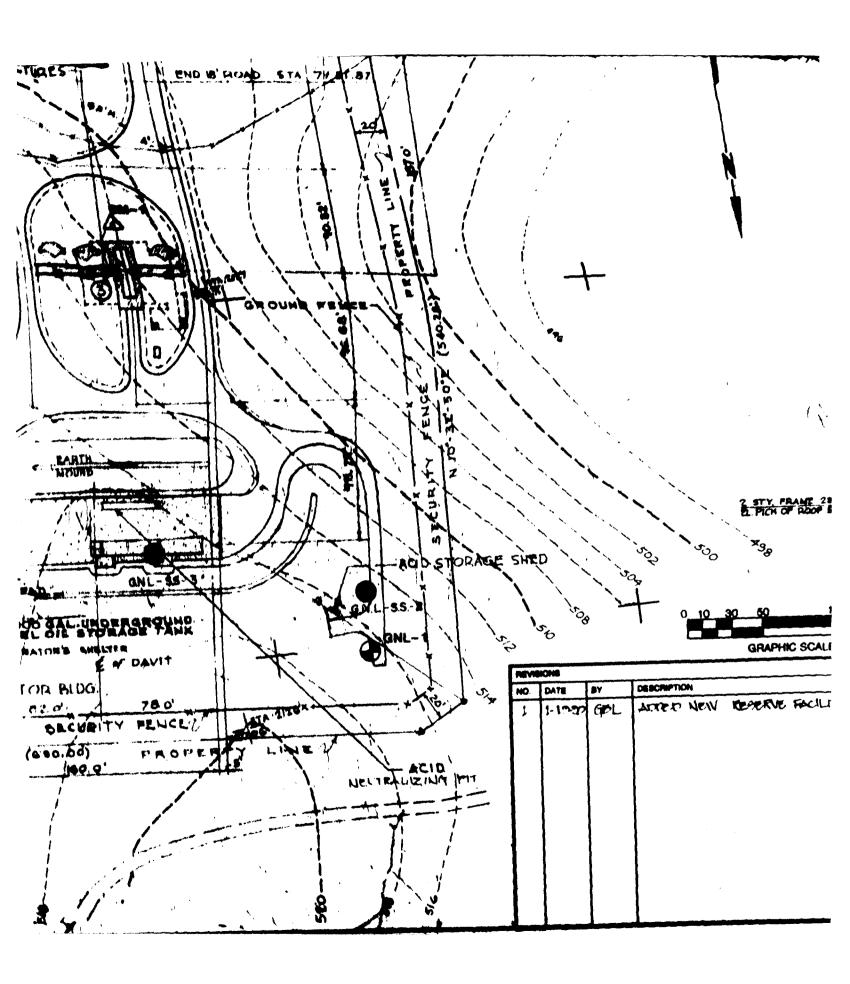
A BENCH MARK



Z STY, FRAME 283 x 14² EL. PICK OF ROOF \$183







| | | | | | E74 |
|---|---|---|-----------------------------------|----------------------|-------------------------|
| GNL SS-4 | 505.78 | Ground surface | | | 849 475 |
| GNL SS-5 | 469.70 | Ground surface | | : | #490 #750 |
| GNL SW-1 | 445.00 | Ground surface | · . | | / 1140: 1275(|
| Description | Elevation (ft) | Reference | Stick Up / | | Coordi |
| BH I | | Paint mark on concrete | • | | 8490680 E749701 |
| BM 2 | | Paint mark on concrete | | | 11490663 E749084 |
| Finished Floor of Transformer Generator Bldg. | 512.33 | Generator bldg. finished floor | ų | · | . |
| Finished Ploor of Chlorination House | 469.48 1 | Pinished floor of Chlorination | House | | |
| | | · · · · · · · · · · · · · · · · · · · | .* | | * |
| Coordinates establish vas established from Datum. All elevations refer Finished floor elevations. | teri Boundary Ha hed by EA Survey off site BH A57 to Hean Sea Lev tion of generato and floor elevati | r building was used to establis on of chlorination house was u | nar Coordinate n Suburban Sani | System. Sitary Commi | Site cont Issien' 19 |
| WITL GESIETIATION refer | s to Caithershu | re MTER Launch | | | |

2 STY, FRAME 28 × 102 EL. PICH OF ROOF 518 3

LEGEND

SOIL SAMPLE

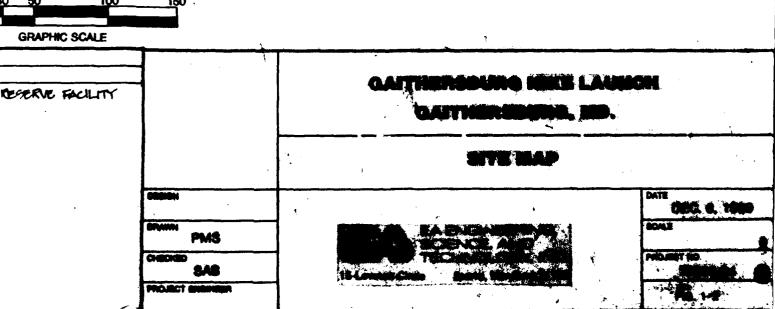
SURFACE WATER

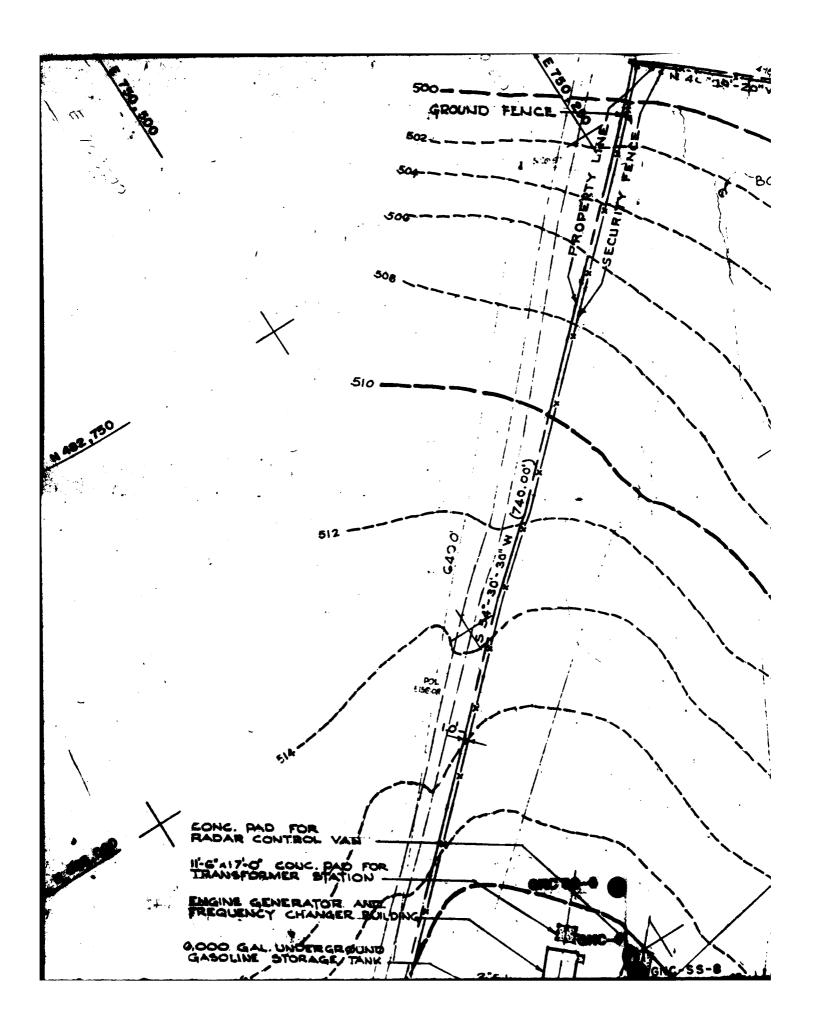
The monitoring well

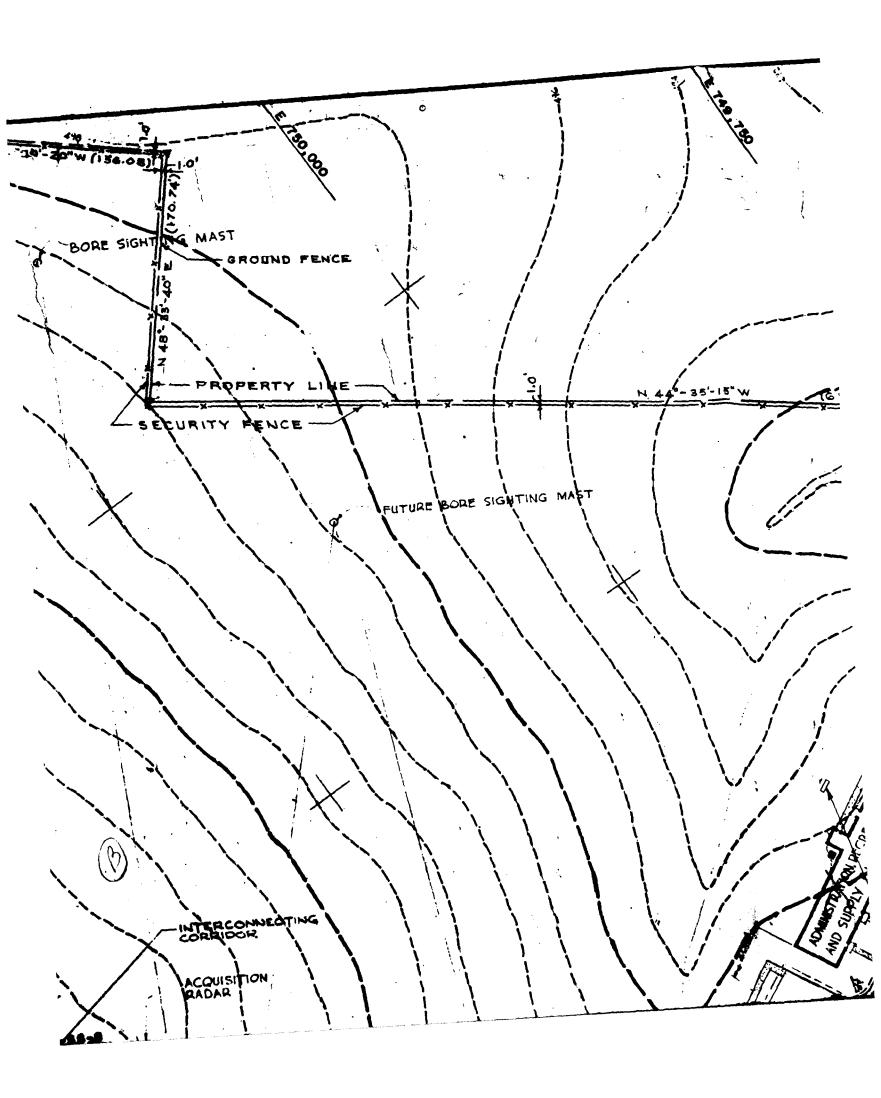
A BENCH MARK

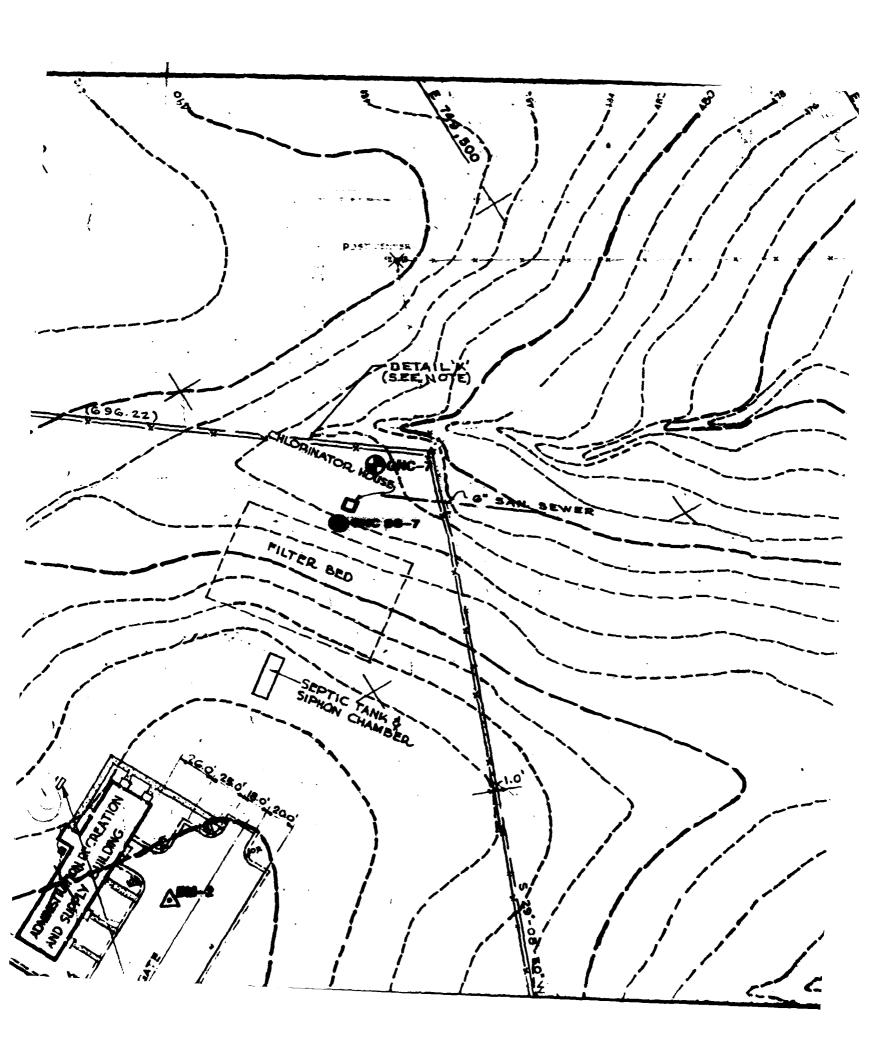


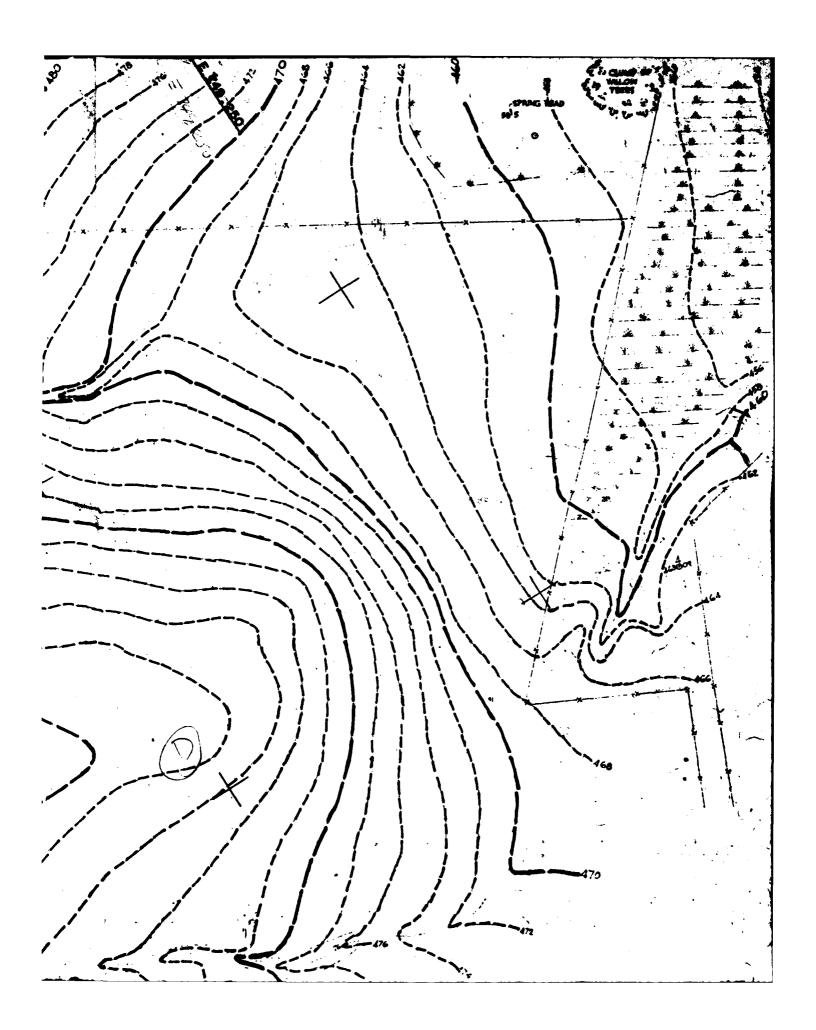


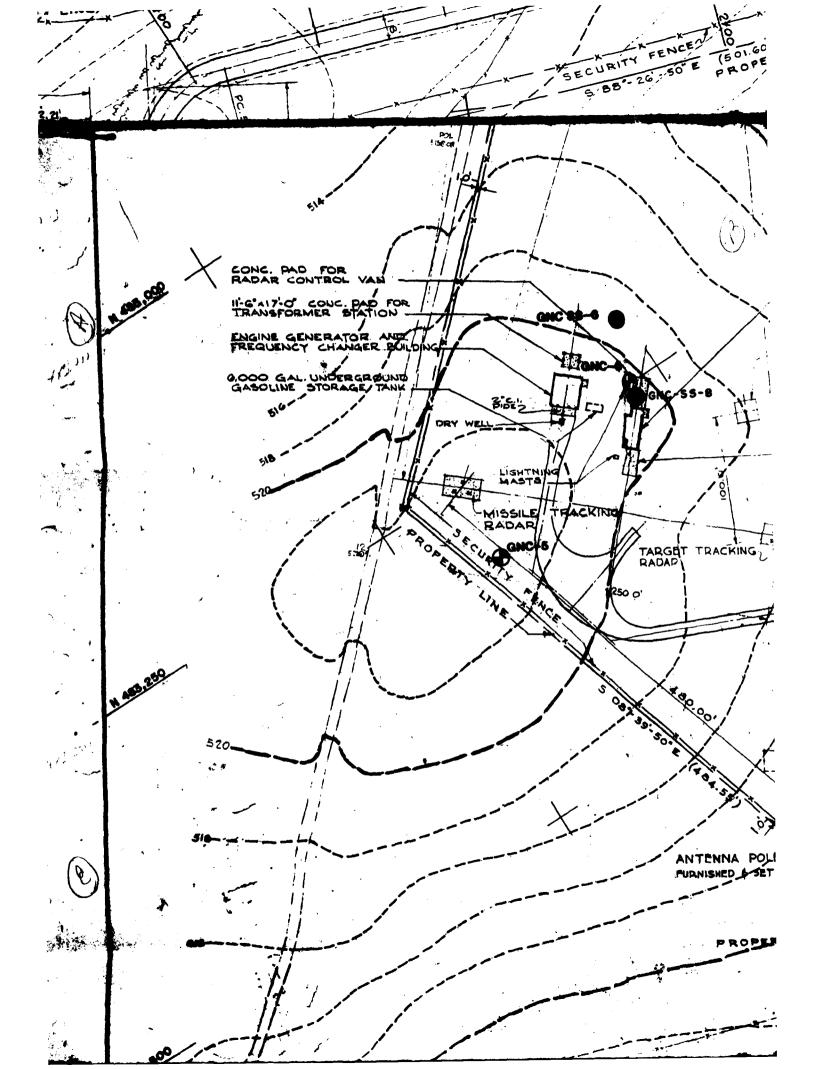


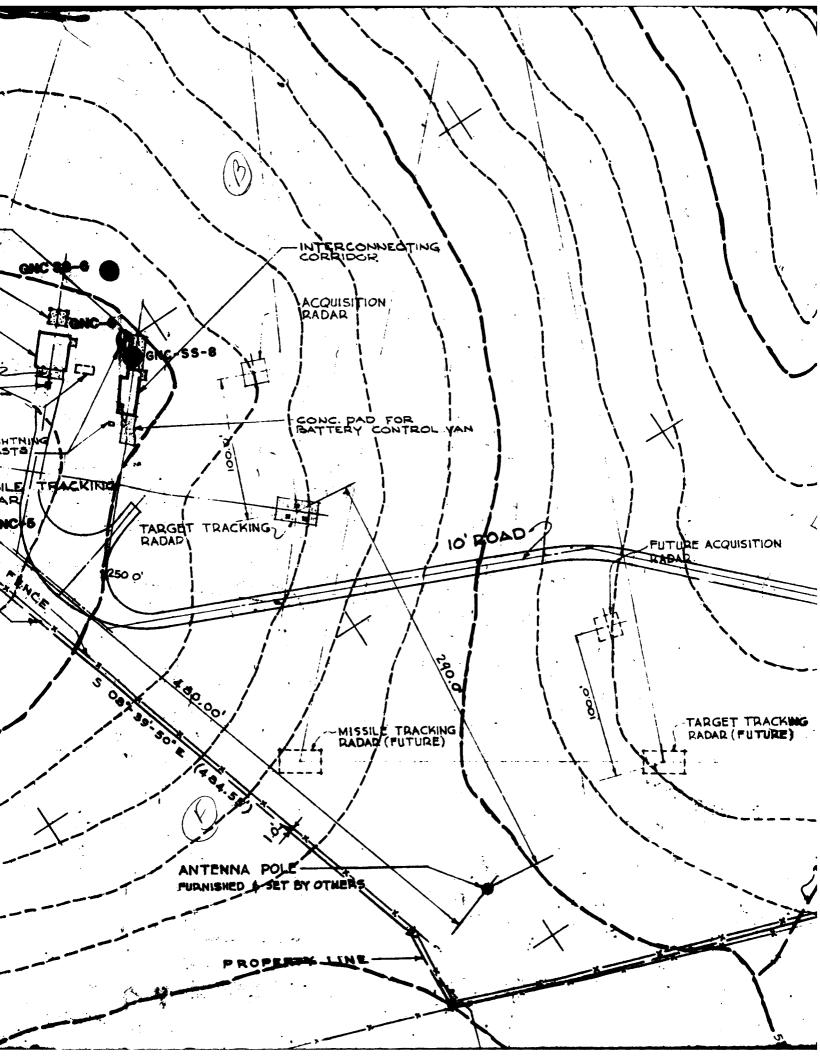


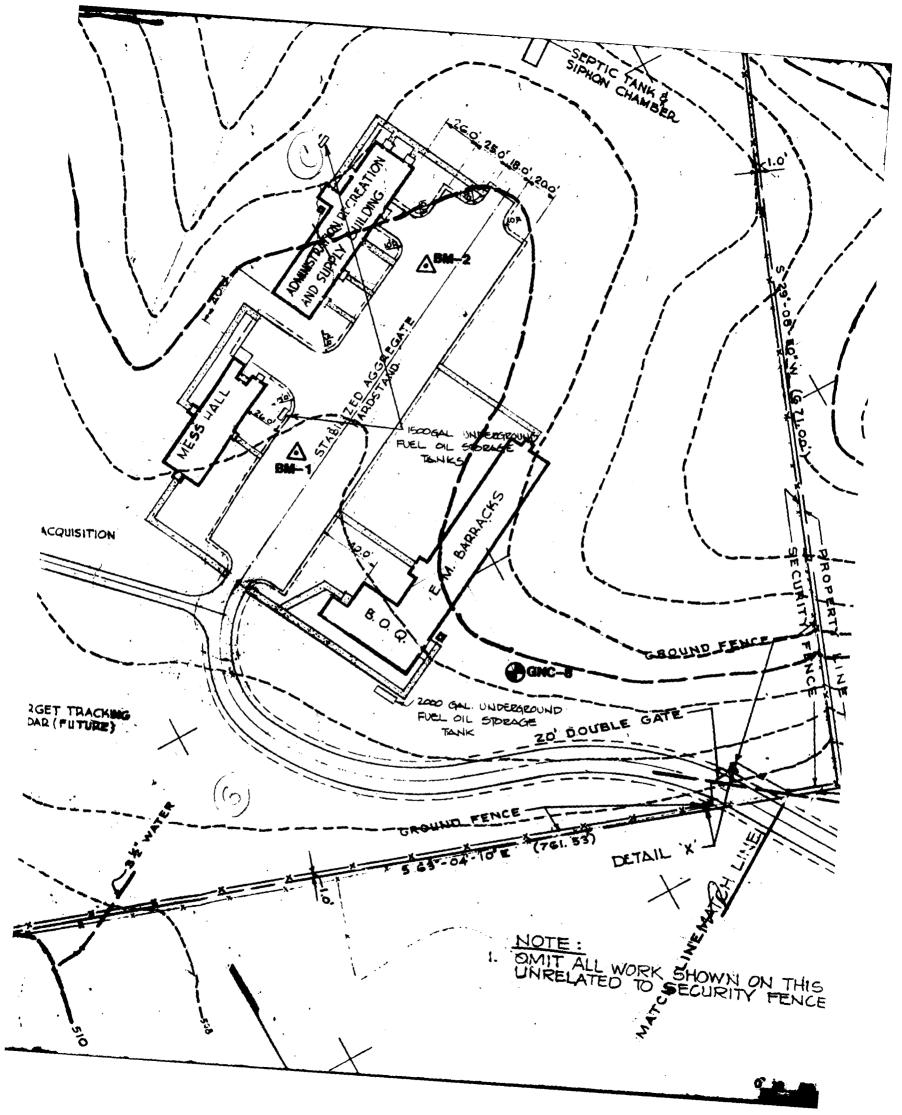


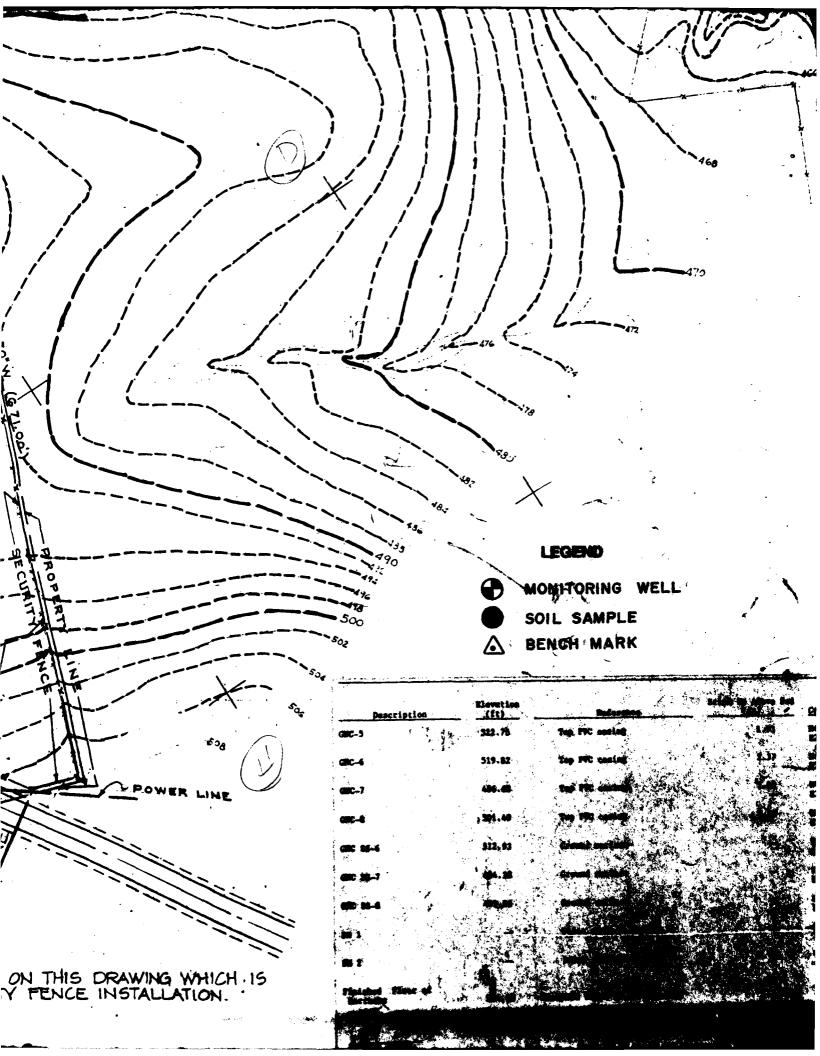


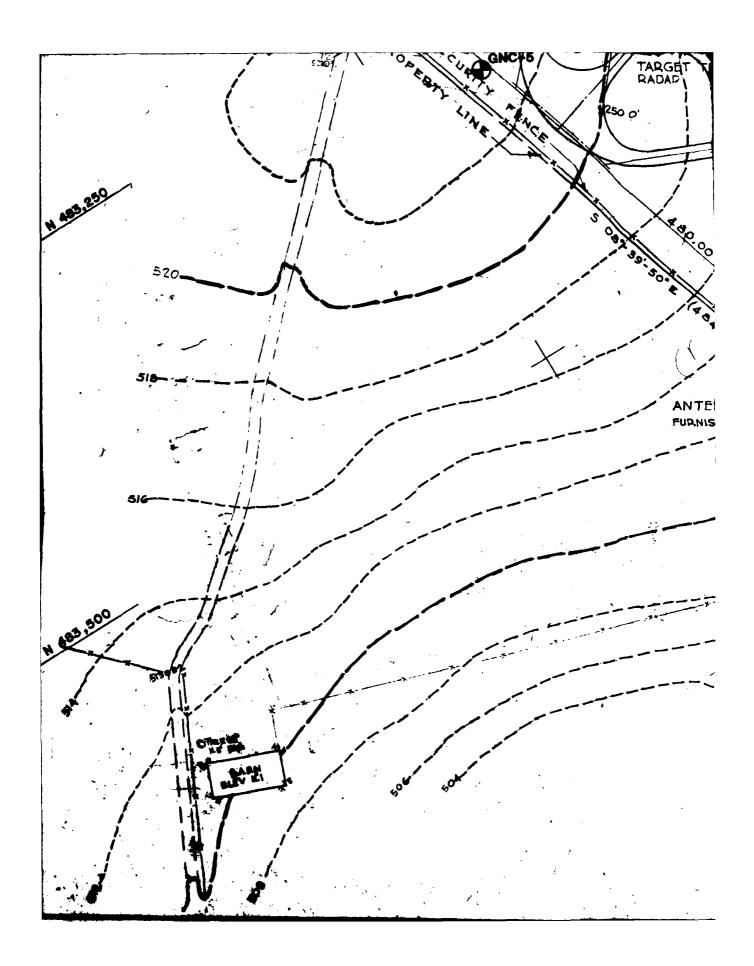


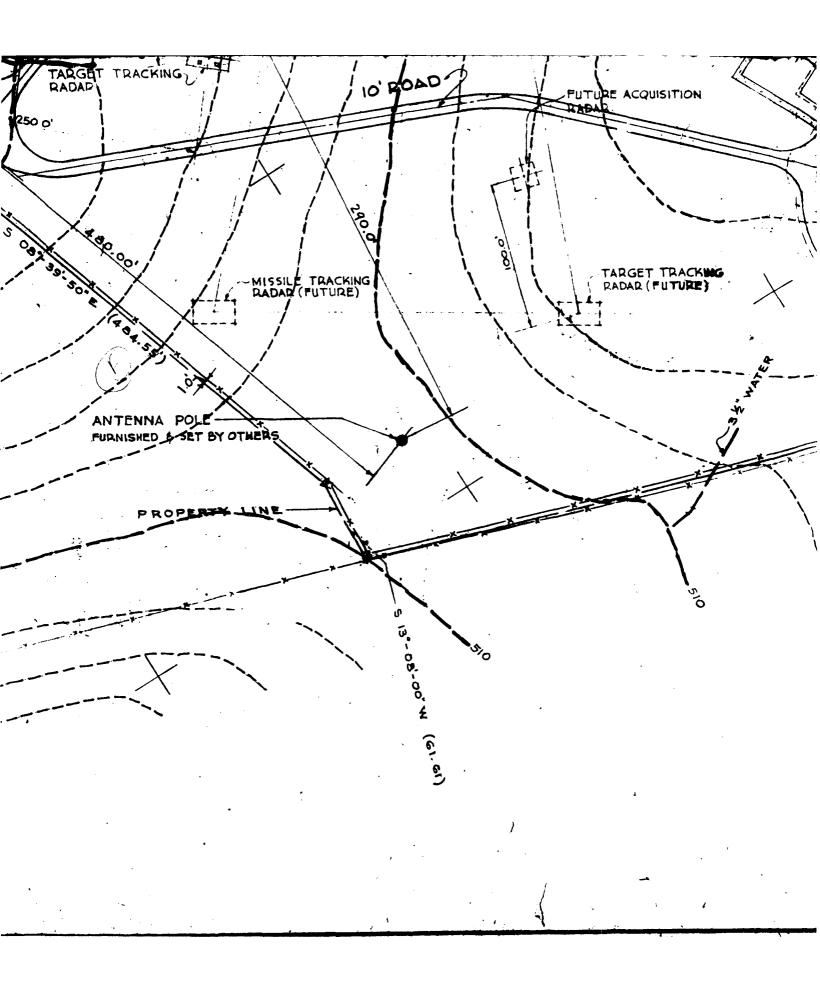


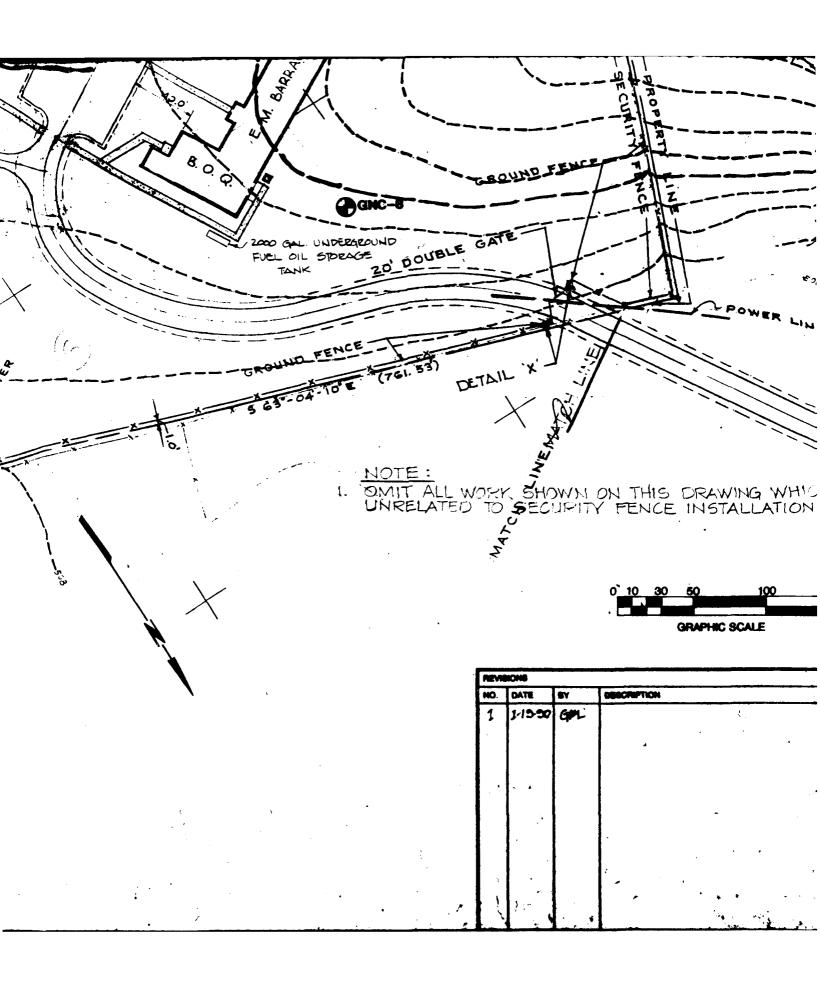














MONITORING WELL



SOIL SAMPLE



BENCH MARK

| | | | • | • | |
|-------------------------------|---------------------|-------------------------------|-------------------------|---------------------|---|
| Description | Elevation (ft) | Keference | Stick Up Above Pad (ft) | Coordinates | |
| GNC -5 | 522.75 | Top PVC casing | 1.93 | N483311 E750688 | |
| CNC-6 | 519.82 | Top PVC casing | 2.37 | N483247 E750522 | |
| GNC-7 | 486.68 | Top PVC casing | 2.02 | N483369 E749673 | • |
| GNC-8 | 501.49 | Top PVC casing | 2.35 | N483822- E750026 | • |
| CNC SS-6 | 512.93 | Ground surface | | N483223 E750479 | |
| CNC SS-7 | 484 18 | Ground surface . | · | N483385 E749709 | |
| CNC SS-8 | 489.82 | Ground surface | · | N483247 E750522 | |
| Вн 1 | - ~ | Paint mark on asphalt | · | N483621 E750086 | |
| BM 2 | •/ ₂ | Paint mark on asphalt | ~~ | N483546 E749946 | |
| Finished Floor of Barracks | 504±00 | Finished floor of EM Barracks | | | |
| | | | • | | |

GENERAL NOTES:

LINE

1:0

Drawing based on Army Corps of Engineers, Washington District, Washington, D.C., Master Plan, Basic Information Maps, Detail Boundary Map, Drawing Mumber 18-02-67.

Coordinates established by EA Survey May 1989. Based on State Planar Coordinate System. Site control was established from off site BM A572 and BM 17232 using Washington Suburban Sanitary Commission 1973 Datus.

All elevations refer to Hean Sea Level Datum. Finished floor of FM Barracks was used to establish well elevations. GNL designation refers to Gaitnersburg NIKE Control.

GAITHERSBURG NIKE CONTROL GAITHERSBURG, MD.

SITE MAP

DESIGN DRAWN **PMS** CHECKED 15 Loveton Circle SAB FROJECT ENGINEER

E. C. Breiting.

EA ENGINEERING. SCIENCE, AND TECHNOLOGY, INC. Sperks, Meryland 21182

DATE

SCALE .

PROJECT NO.

10559:04

DEC. 6, 1989

F10:1-3